

# Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006. Date / Revised: 11.06.2025 Version: 3.2 Date / Previous version: 26.05.2025 Previous version: 3.1 Product: Ammonium Chloride RWT (ID no. 30714109/SDS\_GEN\_DE/EN)

Date of print 30.06.2025

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

## Ammonium Chloride RWT

UFI: C6MR-H00H-E00K-03V5

The substance/mixture contains nanoforms.

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: chemical for the chemical industry Recommended use: Raw material, auxiliary, inorganic salts

For the detailed identified uses of the product see appendix of the safety data sheet.

## 1.3. Details of the supplier of the safety data sheet

Company: BASF SE 67056 Ludwigshafen GERMANY Division Monomers

Telephone: +49 621 60 42737 E-mail address: pss.monomers@basf.com

## **1.4. Emergency telephone number**

International emergency number: Telephone: +49 180 2273-112

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## **SECTION 2: Hazards Identification**

## 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral) H302 Harmful if swallowed. Eye Irrit. 2 H319 Causes serious eye irritation. For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



$\mathbf{V}$	
Signal Word:	
Warning	
Hazard Statement:	
H319 H302	Causes serious eye irritation. Harmful if swallowed.
Precautionary Statemen	ts (Prevention):
P280 P270 P264	Wear eye and face protection. Do not eat, drink or smoke when using this product. Wash contaminated skin thoroughly with plenty of water and soap after handling.
Precautionary Statemen	ts (Response):
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical attention.
Precautionary Statemen	its (Disposal):
P501	Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: ammonium chloride

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## 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered. The product does not contain a substance above legal limits fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Chemical nature ammonium chloride Contains:formulation auxiliary, anticaking agent

Regulatory relevant ingredients

ammonium chloride Content (W/W): >= 75 % - <= 100 Acute Tox. 4 (oral) Eve Dam./Irrit. 2 H319, H302 CAS Number: 12125-02-9 EC-Number: 235-186-4 REACH registration number: 01-2119487950-27, 01-2119489385-24 INDEX-Number: 017-014-00-8

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## **SECTION 4: First-Aid Measures**

#### 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

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After inhalation of decomposition products: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Wash thoroughly with soap and water

On contact with eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## **SECTION 5: Fire-Fighting Measures**

## 5.1. Extinguishing media

Suitable extinguishing media: water spray

Unsuitable extinguishing media for safety reasons: water jet

## 5.2. Special hazards arising from the substance or mixture

Endangering substances: ammonia, anhydrous, hydrogen chloride Advice: The substances/groups of substances mentioned can be released if the product is involved in a fire.

## 5.3. Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. In case of fire and/or explosion do not breathe fumes. Large quantities of extinguishing water containing dissolved product should be contained. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## **SECTION 6: Accidental Release Measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

#### 6.2. Environmental precautions

Do not empty into drains.

#### 6.3. Methods and material for containment and cleaning up

For residues: Pick up in dry form. Dispose of absorbed material in accordance with regulations.

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## **SECTION 7: Handling and Storage**

#### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion: No special precautions necessary.

#### 7.2. Conditions for safe storage, including any incompatibilities

Segregate from alkalies and alkalizing substances. Segregate from nitrites. Segregate from oxidants. Do not store with: Sodium nitrate

Suitable materials for containers: Polyester resin, glass reinforced (Palatal A410), High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4571, rubberized, enamelled, Paper/Fibreboard Further information on storage conditions: Protect against moisture.

Storage class according to TRGS 510 (originally VCI, Germany): (13) Non-combustible solids

#### 7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

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## **SECTION 8: Exposure Controls/Personal Protection**

## 8.1. Control parameters

Components with occupational exposure limits No substance specific occupational exposure limits known.

#### Components with PNEC

12125-02-9: ammonium chloride

freshwater: 0,25 mg/l marine water: 0.025 mg/l intermittent release: 0,43 mg/l sediment (freshwater): No hazard identified. sediment (marine water): No hazard identified. soil: 50,7 mg/kg STP: No hazard identified.

#### Components with DNEL

12125-02-9: ammonium chloride

worker: Long-term exposure- systemic effects, Inhalation: 43,97 mg/m3 worker: Long-term exposure- systemic effects, dermal: 128,9 mg/kg consumer: Long-term exposure- systemic effects, Inhalation: 9,4 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 55,2 mg/kg consumer: Long-term exposure- systemic effects, oral: 55,2 mg/kg

## 8.2. Exposure controls

#### Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1or FFP1)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): chloroprene rubber (CR) - 0.5 mm coating thickness butyl rubber (butyl) - 0.7 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness fluoroelastomer (FKM) - 0.7 mm coating thickness polyvinylchloride (PVC) - 0.7 mm coating thickness Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

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Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

## Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of dusts. When using, do not eat, drink or smoke. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

## **SECTION 9: Physical and Chemical Properties**

#### 9.1. Information on basic physical and chemical properties

State of matter:	solid	
Form:	crystalline, powder	
Colour:	white	
Odour:	almost odourless	
Odour threshold:		
	not applicable, odour not perceivable	
Melting point:	338 °C	
	Literature data.	
	The substance / product	
	decomposes.	
boiling temperature:		
	The substance / product	
	decomposes therefore not	
	determined.	
Sublimation point:	338 °C	
	The substance / product	
	decomposes.	
Flammability:	not flammable	(Regulation 440/2008/EC,
		A.10)
Lower explosion limit:		
	For solids not relevant for	
	classification and labelling.	
Upper explosion limit:		
	For solids not relevant for	
	classification and labelling.	
Flash point:		
	not applicable	
Auto-ignition temperature	2	
	The substance / product	
	decomposes therefore not	
	determined.	

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ate / Previous version: 26.09 oduct: <b>Ammonium Chloric</b>	5.2025 <b>le RWT</b>	Previous version: 3.1
		(ID no. 30714109/SDS_GEN_DE/EN)
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Self-ignition temperature	:	Test type: Self-ignition at high temperatures.
	not self-igniting	
Thermal decomposition:	To avoid thermal decomposition, do	not overheat.
SADT:	Not a substance/mixture liable to set	r-decomposition according to
pH value:	4,7 (200 g/L 25 °C)	(DIN ISO 976)
Viscosity, dynamic:	(200 g), 20 0)	
Solubility in water	not applicable, the product is a solid	(OECD Guideline 105)
	296 - 298 g/l	
	(20 °C, pH 5,4)	
Partitioning coefficient n-	octanol/water (log Kow):	
	because the substance is inorganic	
Vapour pressure:	66 mbar (250 °C)	
Density:	Literature data. 1,5274 g/cm3 (20 °C) Literature data.	
Particle characteristics		
Particle cita distribution:	100 125 um	(DE0 moonured)
	fine particles -	(Dou, measured)
9.2. Other informatio	n	
Information with regard	t to physical hazard classes	
<u>Explosives</u>		
Explosion hazard:	not explosive	(Regulation 440/2008/EC, A.14)
Impact sensitivity:	Based on the chemical structure the	re is no shock-sensitivity.
Oxidizing properties		,
Fire promoting properties	s: not fire-propagating	(Regulation 440/2008/EC,
Pyrophoric properties		
Self-ignition tomporature		Test type: Spontaneous colf
Sen-ignition temperature		ignition at room-temperature.
	not self-igniting	
Self-heating substances	and mixtures	
Self heating ability:	It is not a substance capable of spontaneous heating.	
Impact sensitivity: <u>Oxidizing properties</u> Fire promoting properties <u>Pyrophoric properties</u> Self-ignition temperature <u>Self-heating substances</u> Self heating ability:	Based on the chemical structure the s: not fire-propagating not self-igniting <u>and mixtures</u> It is not a substance capable of spontaneous heating.	A.14) re is no shock-sensitivity. (Regulation 440/2008/EC, A.17) Test type: Spontaneous self- ignition at room-temperature.

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#### Other safety characteristics

Bulk density: pKA:	600 - 900 kg/m3	(DIN ISO 697)
ו Information on: ammonia	not applicable , anhydrous	
<i>рг</i> ч.	Study scientifically not justified., The substance does not dissociate.	
Hygroscopy:	hygroscopic	
·	Study scientifically not justified.	
	Based on chemical structure, surface activity is not to be expected.	
Evaporation rate:	The product is a non-volatile solid.	

## **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

#### 10.2. Chemical stability

The product is chemically stable.

## 10.3. Possibility of hazardous reactions

Violent reaction under influence of oxidizing agents. Incompatible with bases. Reacts with nitrites. The product is stable if stored and handled as prescribed/indicated.

#### 10.4. Conditions to avoid

Avoid heat. Avoid moisture. See SDS section 7 - Handling and storage.

#### 10.5. Incompatible materials

Substances to avoid: nitrites, nitrates, oxidizing agents

## 10.6. Hazardous decomposition products

Hazardous decomposition products: hydrogen chloride, ammonia, anhydrous

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## **SECTION 11: Toxicological Information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Experimental/calculated data:

LD50 rat (oral): 1.410 mg/kg (BASF-Test) (by inhalation):No data available. LD50 rat (dermal): > 2.000 mg/kg (Directive 92/69/EEC, B.3) No mortality was observed.

#### Irritation

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (Draize test)

Serious eye damage/irritation

rabbit: Irritant. (BASF-Test)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (similar to OECD guideline 406)

#### Germ cell mutagenicity

Assessment of mutagenicity:

In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.

#### <u>Carcinogenicity</u>

Assessment of carcinogenicity:

In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed.

## Reproductive toxicity

Assessment of reproduction toxicity: Study scientifically not justified.

#### **Developmental toxicity**

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

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Specific target organ toxicity (single exposure)

Assessment of STOT single: Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

not applicable

Interactive effects No data available.

## 11.2. Information on other hazards

Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## **SECTION 12: Ecological Information**

## 12.1. Toxicity

Assessment of aquatic toxicity: Harmful to aquatic life. Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish: LC50 (96 h) 42,91 mg/l Ammonium chloride, Oncorhynchus mykiss (other, other)

Aquatic invertebrates: EC50 (48 h) 136,6 mg/l, Daphnia magna (other, static)

Aquatic plants: EC50 (5 d) 1.300 mg/l (growth rate), Chlorella vulgaris (other, static)

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The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

EC50 (18 d) 2.700 mg/l (biomass), Chlorella vulgaris (other, static) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge: EC20 (0,5 h) approx. 850 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

Chronic toxicity to fish: EC10 (30 d) 4,28 mg/l ammonium chloride, Lepomis macrochirus (other, Flow through.)

Chronic toxicity to aquatic invertebrates: EC10 (70 d) 2,52 mg/l ammonium chloride, aquatic crustacea (other, semistatic)

Assessment of terrestrial toxicity: Toxic effects have been observed in studies with soil living organisms.

Soil living organisms: LC50 (14 d) 163 mg/kg, Eisenia foetida (other, artificial soil)

Terrestrial plants: No observed effect concentration (84 d) 626 mg/l The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Other terrestrial non-mammals: Study scientifically not justified.

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): Inorganic product which cannot be eliminated from water by biological purification processes. Can be oxidized to nitrate, or be reduced to nitrogen, by microorganisms.

Elimination information: not applicable

Assessment of stability in water: According to structural properties, hydrolysis is not expected/probable. Study scientifically not justified.

Information on Stability in Water (Hydrolysis): Study scientifically not justified.

## 12.3. Bioaccumulative potential

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Assessment bioaccumulation potential: Accumulation in organisms is not to be expected.

Bioaccumulation potential: Accumulation in organisms is not to be expected.

## 12.4. Mobility in soil

Assessment transport between environmental compartments: Volatility: The substance will not evaporate into the atmosphere from the water surface. Study scientifically not justified. Adsorption in soil: Adsorption to solid soil phase is possible.

12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Not applicable for inorganic substances.

## 12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## Results of PMT and vPvM assessment

PMT assessment does not apply. vPvM assessment does not apply.

## Additional information

Add. remarks environm. fate & pathway: The product has not been tested. The statements on environmental fate and pathway have been derived from the properties of the individual components.

## **SECTION 13: Disposal Considerations**

## 13.1. Waste treatment methods

Contact manufacturer regarding recycling. Contact waste centre regarding recycling.

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Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

## **SECTION 14: Transport Information**

#### Land transport

#### ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known
user	

#### RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known
user	

#### Inland waterway transport ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known
user:	

Transport in inland waterway vessel Not evaluated

#### Sea transport

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#### IMDG

UN number or ID number: No UN proper shipping name: No Transport hazard class(es): No Packing group: No Environmental hazards: No Special precautions for No user

Not classified as a dangerous good under transport regulations Not applicable None known

#### Air transport

#### IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known
user	

#### 14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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## 14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

#### **Further information**

Specific national features of transport regulations must be observed. They are to be found in the shipping documents.

## **SECTION 15: Regulatory Information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Prohibitions, Restrictions and Authorizations Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75

Hazardous Incident Ordinance (Germany): Listed in above regulation: no Classification applies for standard conditions of temperature and pressure.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): Listed in above regulation: no Classification applies for standard conditions of temperature and pressure.

Classification according to 'TA-Luft' (Germany):

5.2.1: total dust, including fine dust

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 213

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### 15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

## **SECTION 16: Other Information**

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Acute Tox. 4 (oral) Aquatic Acute 3 Eye Irrit. 2A

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#### chemical industry

Full text of the classifications, including the hazard classes and the hazard statements, if mentionedin section 2 or 3:Acute Tox.Acute Tox.Eye Irrit.Eye Irrit.Eye Dam./Irrit.H319H302Harmful if swallowed.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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## **Annex: Exposure Scenarios**

#### Index

**1.** Manufacture of substance, Distribution of substance, Industrial applications IS; IS; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC15

2. Formulation & (re)packing of substances and mixtures, Industrial applications IS; IS; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

**3.** Formulation & (re)packing of substances and mixtures, (solid preparations), Industrial applications IS; IS; ERC3; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

Use as a Process chemical, Use in Metallurgy, Use for Electroplating, Use in Textile finishing, Use in Biotechnology, Use in leather tanning, finishing, impregnation, Industrial applications
 IS; SU5, SU9, SU14, SU15, SU24; ERC4; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC13, PROC15, PROC22, PROC23, PROC24, PROC25, PROC26

**5.** Use in Batteries, Production, (solid preparations), Industrial applications IS; SU6b, SU8, SU16; ERC5; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19, PROC21, PROC26

**6.** Use as an intermediate, Production of Fertilizers, Formulation of catalysts, Industrial applications IS; SU1, SU8; ERC6a; PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC26

 Use as Reactive process agent, Use in Metallurgy, Use in Metal surface treatment, Use in Textile finishing, Use in leather tanning, finishing, impregnation, Use in Biotechnology, Industrial applications IS; SU5, SU9, SU14, SU15, SU24; ERC6b; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC13, PROC15, PROC22, PROC23, PROC25, PROC26

8. Use as Cross-linking agent, Production of woodbased materials (panels, bricks, etc), Production of bonded fibers or fiber mats

IS; SU6a; ERC6d; PROC6, PROC14

**9.** Use as a Process chemical, Professional applications, (indoor use) PW; SU1, SU8; ERC8a; PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

10. Use as Reactive process agent, Use in/as Fertilizers, Use in Metallurgy, Use in Metal surface treatment, Use in Textile finishing, Use in Biotechnology, Professional applications, (indoor use)
PW; SU5, SU14, SU15; ERC8b; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC11, PROC13, PROC14, PROC15, PROC19, PROC23, PROC26

**11.**Use as a Process chemical, Professional applications, (outdoor use) PW; SU1, SU8, SU10; ERC8d; PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

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**12.**Use as Reactive process agent, Use in/as Fertilizers, Use in Metallurgy, Use in Metal surface treatment, Use in Textile finishing, Use in Biotechnology, Use in leather tanning, finishing, impregnation, Professional applications, (outdoor use)

PW; SU5, SU10, SU14, SU15; ERC8e; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC19, PROC26

**13.**Use in Wood articles, Service life of articles, Consumer applications C; C; ERC10a, ERC11a; AC11

**14.**Use in Biotechnology, Industrial applications ERC6a, ERC6b; PROC4, PROC9

**15.**Use in Metal surface treatment, Consumer applications C; C; ERC8b, ERC8e; PC14, PC38

**16.**Use in/as Fertilizers, Consumer applications C; C; ERC8b, ERC8e; PC12, PC27

17.Use in Adhesives, Use in Surface treatment products, Wood treatment, Use in Wood articles, Consumer applications

C; C; ERC8c, ERC8f; PC1

**18.**Use in Batteries, Consumer applications C; C; ERC9a, ERC9b; PC42

**19.**Use in Batteries, Service life of articles, Consumer applications C; C; ERC10a, ERC11a, ERC12a; AC3

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

#### 1. Short title of exposure scenario

Manufacture of substance, Distribution of substance, Industrial applications IS; IS; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC15

## Control of exposure and risk management measures

Contributing exposure scenario	ERC1: Manufacture of the substance As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
Contributing exposure scenario	

Continuuting exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial

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Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,000266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,01 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,000227	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	

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	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,010639
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m³
Risk Characterization Ratio (RCR)	0,011371
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

For scaling see. http://www.eceloc.org/ira

Contributing exposure scenario		
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00532	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	

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	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m³
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario		
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	

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Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,3429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 2. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, Industrial applications IS; IS; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa

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during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,000266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,01 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,000227	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010639	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m³	
Risk Characterization Ratio (RCR)	0,011371	

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Guidance to Downstream Users
For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial	
Operational conditions		
•	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00532	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	

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Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
	PROC5: Mixing or blending in batch processes
Use descriptors covered	Use domain: industrial
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
	Indeor
Rick Management Managuras	Indoor
Ose suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA V4.2, ECETOC TRA V3.0, WORKER
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario

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Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to i	ts source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,053197
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,113/14
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride

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	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: industrial	
Operational conditions	•	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,026599	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	

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	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m³
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
	PROC15: Use a laboratory reagent.	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,3429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C

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Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable chemically resistant	Effectiveness 80.9/	
gloves.	Effectiveness. 80 %	
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	28,2857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,219439	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
	PROC26: Handling of solid inorganic substances at	
	ambient temperature	
Use descriptors covered	Use domain: industrial	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with		
TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9		
were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing		
while PROC 5 addresses mixing and blending activities		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with		
TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9		
were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing		

while PROC 5 addresses mixing and blending activities

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 3. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (solid preparations), Industrial applications

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IS; IS; ERC3; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

## Control of exposure and risk management measures

Contributing exposure scenario		
Use descriptors covered	ERC3: Formulation into solid matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.	
Operational conditions		
Contributing exposure scenario		
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)		
Assessment method	EASY IRA V4.2, ECETOC IRA V3.0, Worker	
	vvorker - Innalation, long-term - Systemic	
Exposure estimate Rick Characterization Ratio (RCR)	0,011271	
Ruidance to Downstream Users	0,011371	
For scaling see: http://www.acetoc.org/t	ra	
I to scaling see. http://www.eceloc.org/t	Ia	

Contributing exposure scenario	
	PROC3: Manufacture or formulation in the chemical
Use descriptors covered	industry in closed batch processes with occasional
	controlled exposure or processes with equivalent

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	containment condition	
	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temporature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00532	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,053197
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
	PROC5: Mixing or blending in batch processes	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %

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Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	27,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,21279	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
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Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	
Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to i	ts source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: industrial		
Operational conditions			
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %		
Physical state	Solid, medium dustiness		
Vapour pressure of the substance during use	130 Pa		
Process temperature	20 °C		
Duration and Frequency of activity	480 min 5 days per week		
Indoor/Outdoor	Indoor		
Risk Management Measures			
Use suitable eye protection.			
Exposure estimate and reference to its source			
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker		
	Worker - dermal, long-term - systemic		
Exposure estimate	3,4286 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0,026599		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	1 mg/m <sup>3</sup>		
Risk Characterization Ratio (RCR)	0,022743		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org/t	ra		

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent.

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	Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00266
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,011371
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario		
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable chemically resistant gloves.	Effectiveness: 80 %	
Use suitable eye protection.		
Exposure estimate and reference to its source		

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	28,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,219439
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: industrial
Operational conditions	
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities	

There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 4. Short title of exposure scenario

Use as a Process chemical, Use in Metallurgy, Use for Electroplating, Use in Textile finishing, Use in Biotechnology, Use in leather tanning, finishing, impregnation, Industrial applications IS; SU5, SU9, SU14, SU15, SU24; ERC4; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC13, PROC15, PROC22, PROC23, PROC24, PROC25, PROC26

# Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Use of non-reactive processing aid at industrial site

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Operational conditions           Contributing exposure scenario           Use descriptors covered         PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions           Operational conditions         ammonium chloride           Concentration of the substance         ammonium chloride           Physical state         Solid, medium dustiness           Vapour pressure of the substance         130 Pa           during use         20 °C           Puration and Frequency of activity         480 min 5 days per week           Indoor/Outdoor         Indoor <b>Exposure estimate and reference to its source</b> Assessment method         EASY TRA v4.2, ECETOC TRA v3.0, Worker           Worker - dermal, long-term - systemic         0,010639           Assessment method         EASY TRA v4.2, ECETOC TRA v3.0, Worker           Worker - inhalation, long-term - systemic         Exposure estimate           Risk Characterization Ratio (RCR)         0,011371           Guidance to Downstream Users         0,011371		(no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.	
Contributing exposure scenario         Use descriptors covered       PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial         Operational conditions       ammonium chloride Content: >= 0 % - <= 100 %         Physical state       Solid, medium dustiness         Vapour pressure of the substance       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.         Exposure estimate and reference to its source       Ava.9, Worker - demal, long-term - systemic         Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       0,011371	Operational conditions	•	
Use descriptors covered       PROC2: Chemical production or refinery in closed continuous process with equivalent containment conditions Use domain: industrial         Operational conditions       ammonium chloride Content: >= 0 % - <= 100 %	Contributing exposure scenario		
Operational conditions       ammonium chloride         Concentration of the substance       Content: >= 0 % - <= 100 %         Physical state       Solid, medium dustiness         Vapour pressure of the substance       130 Pa         during use       20 °C         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.         Exposure estimate and reference to its source       Assessment method         Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       0,011371	Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial	
ammonium chloride         Concentration of the substance       Content: >= 0 % - <= 100 %	Operational conditions	1	
Physical state       Solid, medium dustiness         Vapour pressure of the substance during use       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.         Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic       Exposure estimate         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       0,011371	Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Vapour pressure of the substance during use130 PaProcess temperature20 °CDuration and Frequency of activity480 min 5 days per weekIndoor/OutdoorIndoorRisk Management MeasuresIndoorUse suitable eye protection.Exposure estimate and reference to its sourceAssessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerExposure estimate1,3714 mg/kg bw/dayRisk Characterization Ratio (RCR)0,010639Assessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerExposure estimate0,5 mg/m³Risk Characterization Ratio (RCR)0,011371Guidance to Downstream Users0,011371	Physical state	Solid, medium dustiness	
Process temperature20 °CDuration and Frequency of activity480 min 5 days per weekIndoor/OutdoorIndoorRisk Management MeasuresIndoorUse suitable eye protection.Exposure estimate and reference to its sourceAssessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerExposure estimate1,3714 mg/kg bw/dayRisk Characterization Ratio (RCR)0,010639Assessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerExposure estimate0,5 mg/m³Risk Characterization Ratio (RCR)0,011371Guidance to Downstream Users0,011371	Vapour pressure of the substance during use	130 Pa	
Duration and Frequency of activity480 min 5 days per weekIndoor/OutdoorIndoorRisk Management MeasuresIndoorUse suitable eye protection.Exposure estimate and reference to its sourceAssessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerWorker - dermal, long-term - systemicExposure estimate1,3714 mg/kg bw/dayRisk Characterization Ratio (RCR)0,010639Assessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerWorker - inhalation, long-term - systemicExposure estimate0,5 mg/m³Risk Characterization Ratio (RCR)0,011371Guidance to Downstream Users0,011371	Process temperature	20 °C	
Indoor/Outdoor       Indoor         Risk Management Measures       Indoor         Use suitable eye protection.       Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       Users	Duration and Frequency of activity	480 min 5 days per week	
Risk Management Measures         Use suitable eye protection.         Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Morker - dermal, long-term - systemic         Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       Users	Indoor/Outdoor	Indoor	
Use suitable eye protection.         Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic         Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       Users	Risk Management Measures		
Exposure estimate and reference to its sourceAssessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerWorker - dermal, long-term - systemicExposure estimate1,3714 mg/kg bw/dayRisk Characterization Ratio (RCR)0,010639Assessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerWorker - inhalation, long-term - systemicExposure estimate0,5 mg/m³Risk Characterization Ratio (RCR)0,011371Guidance to Downstream Users	Use suitable eye protection.		
Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic         Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       Guidance to Downstream Users	Exposure estimate and reference to its source		
Worker - dermal, long-term - systemicExposure estimate1,3714 mg/kg bw/dayRisk Characterization Ratio (RCR)0,010639Assessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerWorker - inhalation, long-term - systemicExposure estimate0,5 mg/m³Risk Characterization Ratio (RCR)0,011371Guidance to Downstream Users	Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
Exposure estimate       1,3714 mg/kg bw/day         Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       0		Worker - dermal, long-term - systemic	
Risk Characterization Ratio (RCR)       0,010639         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       0,011371	Exposure estimate	1,3714 mg/kg bw/day	
Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - inhalation, long-term - systemic         Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       0	Risk Characterization Ratio (RCR)		
Exposure estimate       0,5 mg/m³         Risk Characterization Ratio (RCR)       0,011371         Guidance to Downstream Users       0	Assessment method	EASY TRA V4.2, ECETOC TRA V3.0, Worker	
Exposure estimate     0,5 mg/m²       Risk Characterization Ratio (RCR)     0,011371       Guidance to Downstream Users     0		VVorker - Innalation, long-term - systemic	
Guidance to Downstream Users	Exposure estimate Pick Characterization Patio (PCP)	0,011271	
	Guidance to Downstream Users	0,011371	
For scaling see: http://www.ecetoc.org/tra	For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %

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Physical state Solid, medium dustiness Vapour pressure of the substance 130 Pa during use 20 °C Process temperature 480 min 5 days per week Duration and Frequency of activity Indoor/Outdoor Indoor Risk Management Measures Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v4.2, ECETOC TRA v3.0, Worker Assessment method Worker - dermal, long-term - systemic 0,6857 mg/kg bw/day Exposure estimate Risk Characterization Ratio (RCR) 0,00532 EASY TRA v4.2, ECETOC TRA v3.0, Worker Assessment method Worker - inhalation, long-term - systemic Exposure estimate 1 mg/m<sup>3</sup> Risk Characterization Ratio (RCR) 0,022743 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	

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Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
	PROC5: Mixing or blending in batch processes	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27,4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,21279
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small

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	containers (dedicated filling line, including weighing). Use domain: industrial		
Operational conditions			
•	ammonium chloride		
Concentration of the substance	Content: >= 0 % - <= 100 %		
Physical state	Solid, medium dustiness		
Vapour pressure of the substance during use	130 Pa		
Process temperature	20 °C		
Duration and Frequency of activity	480 min 5 days per week		
Indoor/Outdoor	Indoor		
Risk Management Measures	Risk Management Measures		
Use suitable eye protection.			
Exposure estimate and reference to its source			
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker		
	Worker - dermal, long-term - systemic		
Exposure estimate	6,8571 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0,053197		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	5 mg/m <sup>3</sup>		
Risk Characterization Ratio (RCR)	0,113714		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org	y/tra		

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
·	
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	27,4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,21279
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecotoc.org/tra	

For scaling see: http://www.ecetoc.org/tra

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Contributing exposure scenario		
	PROC13: Treatment of articles by dipping and pouring.	
Use descriptors covered	Use domain: industrial	
Operational conditions		
Operational conditions	a serve a si una sobre si da	
Concentration of the substance	Content: $>= 0 \% - <= 100 \%$	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temporature	20 °C	
Flocess temperature		
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	

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Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00266
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m³
Risk Characterization Ratio (RCR)	0,011371
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, low dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	2,8286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,021944	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	

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## Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario	
Use descriptors covered	PROC23: Open processing and transfer operations at substantially elevated temperature
	Use domain: industrial
Operational conditions	
•	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,4143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,010972
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, low dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	

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Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	2,8286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,021944	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
	PROC25: Other hot work operations with metals	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Dhusiaal state		
Physical state		
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
	190 min E dava par waak	
Duration and Frequency of activity	400 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,2829 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,002194	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ira	

Contributing exposure scenario	
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature

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Date of print 30.06.2025

	Use domain: industrial	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing		

while PROC 5 addresses mixing and blending activities

### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

# 5. Short title of exposure scenario

Use in Batteries, Production, (solid preparations), Industrial applications IS; SU6b, SU8, SU16; ERC5; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19, PROC21, PROC26

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC5: Use at industrial site leading to inclusion into/onto article As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Operational conditions

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride

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	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010639	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m³	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day

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Risk Characterization Ratio (RCR)	0,00532
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial	
Operational conditions	•	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	

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during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
	PROC6: Calendering operations	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	27,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,21279	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

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Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
· · · · · · · · · · · · · · · · · · ·	190 min 5 days per week
Duration and Frequency of activity	400 mm 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,053197
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
	PROC10: Roller application or brushing	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	27,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,21279	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	

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	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: industrial	
Operational conditions	•	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,026599	

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m³
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
	PROC15: Use a laboratory reagent.	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,3429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m³	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ira	

Contributing exposure scenario		
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
Exposure estimate and reference to i	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	28,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,219439
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC21: Low energy manipulation and handling of substances bound in/on materials or articles Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	2,8286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,021944	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,068228	
Guidance to Downstream Users		

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For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: industrial	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities		

### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 6. Short title of exposure scenario

Use as an intermediate, Production of Fertilizers, Formulation of catalysts, Industrial applications IS; SU1, SU8; ERC6a; PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC26

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
Contributing exposure scenario	

	PROC2: Chemical production or refinery in closed
Use descriptors covered	continuous process with occasional controlled exposure or
	processes with equivalent containment conditions

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	Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010639	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m³	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	-
Use suitable eye protection.	

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00532
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Use descriptors covered       PROC4: Chemical production where opportunity for exposure arises         Operational conditions       ammonium chloride         Concentration of the substance       ammonium chloride         Content: >= 0 % - <= 100 %         Physical state       Solid, medium dustiness         Vapour pressure of the substance       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.         Exposure estimate and reference to its source       Assessment method         EASY TRA v4.2, ECETOC TRA v3.0, Worker       Worker - dermal, long-term - systemic	Contributing exposure scenario		
Use descriptors covered       exposure arises Use domain: industrial         Operational conditions       ammonium chloride Concentration of the substance         Physical state       Solid, medium dustiness         Vapour pressure of the substance during use       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.         Exposure estimate and reference to its source       Assessment method         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       Vorker - dermal, long-term - systemic		PROC4: Chemical production where opportunity for	
Operational conditions       Use domain: industrial         Operational conditions       ammonium chloride Concentration of the substance         Physical state       Solid, medium dustiness         Vapour pressure of the substance during use       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.         Exposure estimate and reference to its source       Assessment method         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker	Use descriptors covered	exposure arises	
Operational conditions       ammonium chloride Concentration of the substance         Physical state       Solid, medium dustiness         Vapour pressure of the substance during use       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.         Exposure estimate and reference to its source       Assessment method         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       Worker - dermal, long-term - systemic		Use domain: industrial	
Operational conditions         Concentration of the substance       ammonium chloride Content: >= 0 % - <= 100 %			
Concentration of the substanceammonium chloride Content: >= 0 % - <= 100 %Physical stateSolid, medium dustinessVapour pressure of the substance during use130 PaProcess temperature20 °CDuration and Frequency of activity480 min 5 days per weekIndoor/OutdoorIndoorRisk Management MeasuresUse suitable eye protection.Use suitable eye protection.Exposure estimate and reference to its sourceAssessment methodEASY TRA v4.2, ECETOC TRA v3.0, WorkerWorker - dermal, long-term - systemic	Operational conditions		
Concentration of the substance       Content: >= 0 % - <= 100 %		ammonium chloride	
Physical state       Solid, medium dustiness         Vapour pressure of the substance during use       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor <i>Risk Management Measures</i> Use suitable eye protection. <i>Exposure estimate and reference to its source</i> Assessment method         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       Worker - dermal, long-term - systemic	Concentration of the substance	Content: >= 0 % - <= 100 %	
Vapour pressure of the substance during use       130 Pa         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor <i>Risk Management Measures</i> Use suitable eye protection. <i>Exposure estimate and reference to its source</i> EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       Worker - dermal, long-term - systemic	Physical state	Solid, medium dustiness	
Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor <i>Risk Management Measures</i> Use suitable eye protection.         Use suitable eye protection.       Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       0.0574 met/tep.//dev.//	Vapour pressure of the substance during use	130 Pa	
Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor <i>Risk Management Measures</i> Use suitable eye protection.         Use suitable eye protection.       Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       0.9574 mg/kg bm/days	Process temperature	20 °C	
Indoor/Outdoor     Indoor       Risk Management Measures     Indoor       Use suitable eye protection.     Image: Source stimate and reference to its source       Exposure estimate and reference to its source     Image: Source stimate and reference to its source       Assessment method     EASY TRA v4.2, ECETOC TRA v3.0, Worker       Image: Source stimate and reference to its source     Image: Source stimate and reference to its source	Duration and Frequency of activity	480 min 5 days per week	
Risk Management Measures         Use suitable eye protection.         Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic         Europeane estimate       0.9574 mg/kg bw/day	Indoor/Outdoor	Indoor	
Use suitable eye protection.         Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic         Euroscure estimate       0.9574 mg/kg hw/day	Risk Management Measures		
Exposure estimate and reference to its source         Assessment method       EASY TRA v4.2, ECETOC TRA v3.0, Worker         Worker - dermal, long-term - systemic       0.9574 mg/l/mg/l/mg/l/mg/l/mg/l/mg/l/mg/l/mg/l	Use suitable eye protection.		
Assessment method EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic	Exposure estimate and reference to its source		
Worker - dermal, long-term - systemic	Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
		Worker - dermal, long-term - systemic	
Exposure estimate   6,8571 mg/kg bw/day	Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR) 0,053197	Risk Characterization Ratio (RCR)	0,053197	
Assessment method EASY TRA v4.2, ECETOC TRA v3.0, Worker	Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
Worker - inhalation, long-term - systemic		Worker - inhalation, long-term - systemic	
Exposure estimate 5 mg/m <sup>3</sup>	Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR) 0,113714	Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org/tra	For scaling see: http://www.ecetoc.org/ti	ra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride

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	Content: >= 0 % - <= 100 %	
Physical state	Solid. medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial	
Operational conditions	·	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	

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	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial	
Operational conditions	•	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa

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Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

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Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,026599	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	tra	

Contributing exposure scenario	
	PROC15: Use a laboratory reagent.
Use descriptors covered	Use domain: industrial
Operational conditions	
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa
during use	
	20 °C
Process temperature	20 0
	190 min E dava par week
Duration and Frequency of activity	400 min 5 days per week
Indeer/Outdeer	Indoor
Risk Management Measures	
Use suitable eye protection.	

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00266
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m³
Risk Characterization Ratio (RCR)	0,011371
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: industrial	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9		

were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 7. Short title of exposure scenario

Use as Reactive process agent, Use in Metallurgy, Use in Metal surface treatment, Use in Textile finishing, Use in leather tanning, finishing, impregnation, Use in Biotechnology, Industrial applications IS; SU5, SU9, SU14, SU15, SU24; ERC6b; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC13, PROC15, PROC22, PROC23, PROC25, PROC26

# Control of exposure and risk management measures

Contributing exposure scenario

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Use descriptors coveredERC6b: Use of reactive processing aid at indust inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment ar characterization was performed.	strial site (no nd risk
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**Operational conditions** 

Contributing exposure scenario		
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010639	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m³	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride

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	Content: >= 0 % - <= 100 %	
Physical state	Solid. medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures	-	
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00532	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial	
Operational conditions	·	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	

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	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
	PROC5: Mixing or blending in batch processes	
Use descriptors covered	Use domain: industrial	
Operational conditions		
-	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to i	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27,4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,21279
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Use descriptors coveredPROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrialOperational conditionsammonium chloride Concentration of the substanceConcentration of the substanceammonium chloride Content: >= 0 % - <= 100 %Physical stateSolid, medium dustinessVapour pressure of the substance during use130 PaProcess temperature20 °CDuration and Frequency of activity480 min 5 days per weekIndoor/OutdoorIndoorRisk Management Measures Use suitable eye protection.Indoor		
Operational conditions         Concentration of the substance       ammonium chloride Content: >= 0 % - <= 100 %		
Concentration of the substanceammonium chloride Content: >= 0 % - <= 100 %Physical stateSolid, medium dustinessVapour pressure of the substance during use130 PaProcess temperature20 °CDuration and Frequency of activity480 min 5 days per weekIndoor/OutdoorIndoorRisk Management MeasuresUse suitable eye protection.		
Physical state       Solid, medium dustiness         Vapour pressure of the substance       130 Pa         during use       20 °C         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.		
Vapour pressure of the substance       130 Pa         during use       20 °C         Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor         Risk Management Measures       Use suitable eye protection.		
Process temperature       20 °C         Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor <i>Risk Management Measures</i> Use suitable eye protection.		
Duration and Frequency of activity       480 min 5 days per week         Indoor/Outdoor       Indoor <i>Risk Management Measures</i> Use suitable eye protection.		
Indoor/Outdoor     Indoor       Risk Management Measures     Use suitable eye protection.		
Risk Management Measures         Use suitable eye protection.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method EASY TRA v4.2, ECETOC TRA v3.0, Worker		
Worker - dermal, long-term - systemic		
Exposure estimate 13,7143 mg/kg bw/day		
Risk Characterization Ratio (RCR) 0,106395		
Assessment method EASY TRA v4.2, ECETOC TRA v3.0, Worker		
Worker - inhalation, long-term - systemic		
Exposure estimate 1 mg/m <sup>3</sup>		
Risk Characterization Ratio (RCR) 0,022743		
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario

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Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors severed	PROC10: Roller application or brushing
Use descriptors covered	
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	27,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,21279	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
	PROC13: Treatment of articles by dipping and pouring.	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00266
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m³
Risk Characterization Ratio (RCR)	0,011371
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	ra

Contributing exposure scenario		
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, low dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	2,8286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,021944	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		

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For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
Use descriptors covered	PROC23: Open processing and transfer operations at substantially elevated temperature Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, low dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,4143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010972	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Line departmenters servered	PROC25: Other hot work operations with metals
Ose descriptors covered	
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,2829 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,002194
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: industrial	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities		
There is no corresponding TRA entry co	oncerning PROC 26 and thus, calculation of PROC 26 with	

TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

### 8. Short title of exposure scenario

Use as Cross-linking agent, Production of woodbased materials (panels, bricks, etc), Production of bonded fibers or fiber mats

IS; SU6a; ERC6d; PROC6, PROC14

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# Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Operational conditions

Contributing exposure scenario		
	PROC6: Calendering operations	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
<b>_</b>		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	27,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,21279	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride

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	Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3,4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,026599
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 9. Short title of exposure scenario

Use as a Process chemical, Professional applications, (indoor use) PW; SU1, SU8; ERC8a; PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional

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Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010639	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00532
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m³
Risk Characterization Ratio (RCR)	0,022743
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	r0

For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %

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Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	-
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³

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Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	
Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,026599	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent.

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	Use domain: professional	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,3429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m³	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable chemically resistant gloves.	Effectiveness: 80 %	
Use suitable eye protection.		
Exposure estimate and reference to its source		

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	28,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,219439
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: professional	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with		
TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9		
were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing		
while PROC 5 addresses mixing and blending activities		
There is no corresponding TRA entry co	oncerning PROC 26 and thus, calculation of PROC 26 with	

TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

### 10. Short title of exposure scenario

Use as Reactive process agent, Use in/as Fertilizers, Use in Metallurgy, Use in Metal surface treatment, Use in Textile finishing, Use in Biotechnology, Professional applications, (indoor use) PW; SU5, SU14, SU15; ERC8b; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC11, PROC13, PROC14, PROC15, PROC19, PROC23, PROC26

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8b: Widespread use of reactive processing aid (no

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	inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.	
Operational conditions		
Contributing exposure scenario		
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010639	
Assessment method	EASY IRA V4.2, ECEIOC IRA V3.0, Worker	
	worker - Innalation, long-term - Systemic	
Exposure estimate Rick Characterization Ratio (RCR)	1 mg/m²	
Risk Gildiacienzation Ratio (RCR)	0,022743	
For scaling see: http://www.ecotoc.org/t	ra	
T OF Scaling See. http://www.eceloc.org/l	14	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %

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Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00532	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,022743	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	

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Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
	PROC5: Mixing or blending in batch processes	
Use descriptors covered	Use domain: professional	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid modium dustinoss	
Vanaur pressure of the substance		
during use	150 Fa	
	20 °C	
Process temperature	20 0	
	480 min 5 days per week	
Duration and Frequency of activity		
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27,4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,21279
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	10 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,227428	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and

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	discharging) at dedicated facilities	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,053197
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - < 1 %
Physical state	liquid
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Any sized room
Application rate	> 3 I/min
Risk Management Measures	
Ensure that the task is carried out only	
downward.	
Surface spraying with no or low	
compressed air use.	
Ensure doors and windows are	
opened (general ventilation).	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	10,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,083121
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,272913
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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Contributing exposure scenario PROC11: Non industrial spraying Use descriptors covered Use domain: professional **Operational conditions** ammonium chloride Concentration of the substance Content: >= 0 % - < 1 % Physical state liquid Vapour pressure of the substance 130 Pa during use 20 °C Process temperature 480 min 5 days per week Duration and Frequency of activity Indoor/Outdoor Indoor Any sized room > 3 l/min Application rate **Risk Management Measures** Ensure that the task is carried out only downward. Ensure doors and windows are opened (general ventilation). Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Ensure that the worker is in a personal enclosure Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 10,7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0,083121 Assessment method EASY TRA v4.2, Advanced REACH Tool v1.5 Worker - inhalation, long-term - systemic Exposure estimate 21 mg/m<sup>3</sup> 0,477598 Risk Characterization Ratio (RCR) Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %

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Physical state Solid, medium dustiness Vapour pressure of the substance 130 Pa during use 20 °C Process temperature 480 min 5 days per week Duration and Frequency of activity Indoor/Outdoor Indoor Risk Management Measures Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v4.2, ECETOC TRA v3.0, Worker Assessment method Worker - dermal, long-term - systemic 13,7143 mg/kg bw/day Exposure estimate Risk Characterization Ratio (RCR) 0,106395 EASY TRA v4.2, ECETOC TRA v3.0, Worker Assessment method Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m<sup>3</sup> Risk Characterization Ratio (RCR) 0,113714 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,026599	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	

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Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
	PROC15: Use a laboratory reagent.	
Use descriptors covered	Use domain: professional	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,3429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,5 mg/m³	
Risk Characterization Ratio (RCR)	0,011371	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	

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Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable chemically resistant	Effectiveness: 80 %
gloves.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	28,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,219439
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC23: Open processing and transfer operations at substantially elevated temperature Use domain: professional	
Operational conditions	•	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, low dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,4143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010972	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,068228	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

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Contributing exposure scenario		
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature	
	Use domain: protessional	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with		
TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9		
were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing		
while PROC 5 addresses mixing and blending activities		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with		
TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9		
were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing		
while PROC 5 addresses mixing and blending activities		

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

# 11. Short title of exposure scenario

Use as a Process chemical, Professional applications, (outdoor use) PW; SU1, SU8, SU10; ERC8d; PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC19, PROC26

# Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional

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Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1,3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,010639	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,7 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,01592	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario		
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00532
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m³
Risk Characterization Ratio (RCR)	0,01592
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for	
	exposure arises	
	Use domain: professional	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	

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Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	

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Exposure estimate	3,5 mg/m³
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,026599	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario

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Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: professional	
Operational conditions		
•	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,3429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00266	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,35 mg/m³	
Risk Characterization Ratio (RCR)	0,00796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	28,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,219439
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,5 mg/m³
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: professional	
Operational conditions		
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	Qualitative assessment	
Additional good practice advice		
There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities		

There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 12. Short title of exposure scenario

Use as Reactive process agent, Use in/as Fertilizers, Use in Metallurgy, Use in Metal surface treatment, Use in Textile finishing, Use in Biotechnology, Use in leather tanning, finishing, impregnation, Professional applications, (outdoor use)

PW; SU5, SU10, SU14, SU15; ERC8e; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC19, PROC26

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# Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8e: Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,010639
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,01592
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional

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Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0,6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,00532	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0,7 mg/m³	
Risk Characterization Ratio (RCR)	0,01592	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day

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Risk Characterization Ratio (RCR)	0,053197
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
	PROC5: Mixing or blending in batch processes	
Use descriptors covered	Use domain: professional	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13,7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,106395	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/		

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa

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Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27,4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,21279
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

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Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
	PROC10: Roller application or brushing
Use descriptors covered	Use domain: professional
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa
during use	
Brosses temperature	20 °C
Process temperature	
Duration and Fraguanay of activity	480 min 5 days per week
Duration and Frequency of activity	
Indoor/Outdoor	Outdoor
Risk Management Measures	

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Use suitable eye protection.	
Exposure estimate and reference to i	ts source
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27,4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,21279
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	
	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - < 1 %
Physical state	liquid
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
· · ·	
Duration and Frequency of activity	480 min 5 days per week
Indeer/Outdeer	Outdoor
Application rate	> 3 1/11111
RISK Wanagement Measures	
dowoward	
Ensure that the task is being carried	
out outside the breathing zone of a	
worker (distance head-product greater	
than 1m)	
Ensure that the worker is in a	
personal enclosure	
Use suitable eve protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	10,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,083121
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,26 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,005913
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### Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
	PROC11: Non industrial spraying	
Use descriptors covered	Use domain: professional	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - < 1 %	
Physical state	liquid	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
····		
Duration and Frequency of activity	480 min 5 days per week	
	Quitdoor	
Application rate	> 3 I/min	
Risk management measures		
ensure that the task is carried out only		
Contraction with no or low		
compressed air use		
Use suitable eve protection		
Use suitable eye protection.		
Assessment method	FASY TRA VA 2 ECETOC TRA V3.0 Worker	
	Worker - dermal long-term - systemic	
Exposure estimate	10 7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.083121	
Assessment method	EASY TRA v4.2 Advanced REACH Tool v1.5	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3.2 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0.072777	
Guidance to Downstream Users	L - / -	
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	

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Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,106395
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,5 mg/m³
Risk Characterization Ratio (RCR)	0,0796
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: professional	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3,4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,026599	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	ira	

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Contributing exposure scenario		
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional	
Operational conditions	·	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Use suitable chemically resistant gloves.	Effectiveness: 80 %	
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	28,2857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,219439	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	3,5 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR)	0,0796	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: professional
Operational conditions	
Physical state	Solid, medium dustiness
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	

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There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

There is no corresponding TRA entry concerning PROC 26 and thus, calculation of PROC 26 with TRA is not possible. To approximately map the activities described by PROC 26, PROC 5, 8b and 9 were used. PROC 8b and 9 were used to address the transfer, packaging, unpacking, and weighing while PROC 5 addresses mixing and blending activities

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 13. Short title of exposure scenario

Use in Wood articles, Service life of articles, Consumer applications C; C; ERC10a, ERC11a; AC11

### Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC10a: Widespread use of articles with low release (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Operational conditions

Contributing exposure scenario	
Use descriptors covered	ERC11a: Widespread use of articles with low release (indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Operational conditions

Contributing exposure scenario		
Use descriptors covered	AC11-3: Wood and wood furniture: toys.	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 2 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	365 uses per year	

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Duration and Frequency of activity	365 uses per year	
body weight	7,2 kg	
Uptake fraction dermal	100 %	
Uptake fraction oral	100 %	
	Amount per use 10 g Relevant for dermal exposure	
	estimates	
	Amount ingested 0,1 g Relevant for oral exposure	
	estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant	
	application, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	27,7778 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,503221	
	The calculation is based on the internal chronic dose.	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Oral model: direct intake,	
Assessment method	Uptake model: Uptake fraction	
	Consumer - oral, long-term - systemic	
Exposure estimate	0,2778 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,005032	
	The calculation is based on the internal chronic dose.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.isp		

Contributing exposure scenario		
Use descriptors covered	AC11-1: Wood and wood furniture: flooring.	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 5 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	365 uses per year	
body weight	65 kg	
Uptake fraction dermal	100 %	
	Amount per use 8,75 g Relevant for dermal exposure	
	estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant	

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	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	6,7308 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,121934
	The calculation is based on the internal chronic dose.
Guidance to Downstream Users	

Contributing exposure scenario		
Use descriptors covered	AC11: Wood articles	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 10 %	
	400 D-	
during use	130 Pa	
	20 °C	
Process temperature		
Duration and Frequency of activity	182 uses per year	
Duration and Frequency of activity	182 uses per year	
	7.2 kg	
body weight	,,g	
I Intake fraction dermal	100 %	
Uptake fraction oral	100 %	
	Amount per use 0,56 g Relevant for dermal exposure	
	estimates	
	Amount ingested 0,1 g Relevant for oral exposure	
	estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant	
	application, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	3,8782 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,070258	
	The calculation is based on the internal chronic dose.	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Oral model: direct intake,	
	Uptake model: Uptake fraction	
	Consumer - oral, long-term - systemic	
Exposure estimate	0,6925 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,012546	
	The calculation is based on the internal chronic dose.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp		

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Contributing exposure scenario	
Use descriptors covered	AC11-2: Wood and wood furniture: furniture.
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 10 %
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	365 uses per year
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 8,75 g Relevant for dermal exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	13,4615 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,243868
	The calculation is based on the internal chronic dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/h	ealthanddisease/productsafety/ConsExpo.isp

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### 14. Short title of exposure scenario

Use in Biotechnology, Industrial applications ERC6a, ERC6b; PROC4, PROC9

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC6b: Use of reactive processing aid at industrial site (no
	inclusion into or onto article)

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As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario		
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %	
Physical state	Solid, medium dustiness	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6,8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,053197	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0,113714	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ira	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	130 Pa

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Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,053197
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0,113714
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

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## 15. Short title of exposure scenario

Use in Metal surface treatment, Consumer applications C; C; ERC8b, ERC8e; PC14, PC38

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC8e: Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

# **Operational conditions**

Contributing exposure scenario	
Use descriptors covered	PC14: Metal surface treatment products, including galvanic
	and electroplating products.

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Operational conditions			
	ammonium chloride		
Concentration of the substance	Content: >= 0 % - <= 100 %		
Vapour pressure of the substance	130 Pa		
during use			
Process temperature	20 °C		
Duration and Frequency of activity	240 uses per year		
Exposure estimate and reference to	Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, Other consideration (non-standard tool)		
	Consumer - dermal, long-term - systemic		
Exposure estimate	2,8 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0,050725		
Assessment method	EASY TRA v4.2, Other consideration (non-standard tool)		
	Consumer - inhalation, long-term - systemic		
Exposure estimate	5 mg/m <sup>3</sup>		
Risk Characterization Ratio (RCR)	0,531915		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org/	tra		

Contributing exposure scenario	
Use descriptors covered	PC38: Welding and soldering products, flux products.
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 100 %
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 h 240 uses per year
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, Other consideration (non-standard tool)
	Consumer - dermal, long-term - systemic
Exposure estimate	0,3 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,005435
Assessment method	EASY TRA v4.2, Other consideration (non-standard tool)
	Consumer - inhalation, long-term - systemic
Exposure estimate	6 mg/m³
Risk Characterization Ratio (RCR)	0,638298
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

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## 16. Short title of exposure scenario

Use in/as Fertilizers, Consumer applications C; C; ERC8b, ERC8e; PC12, PC27

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario	
Use descriptors covered	ERC8e: Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Operational conditions

Contributing exposure scenario		
Use descriptors covered	PC12: Fertilizers.	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 35 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	12 uses per year	
Exposed skin area	Both hands (820 cm <sup>2</sup> )	
Uptake fraction dermal	100 %	
Uptake fraction oral	100 %	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA, Consumer	
	Consumer - dermal, long-term - systemic	
Exposure estimate	2,0008 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,036247	

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Assessment method	EASY TRA v4.2, ECETOC TRA, Consumer
	Consumer - oral, long-term - systemic
Exposure estimate	0,42 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,007609
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Use descriptors covered	PC27: Plant Protection products.	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 35 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	1 uses per month	
Duration and Frequency of activity	1 uses per month	
body weight	65 kg	
Uptake fraction dermal	100 %	
Uptake fraction oral	100 %	
	Amount per use 8,6 g Relevant for dermal exposure estimates	
	Amount ingested 0,3 g Relevant for oral exposure estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	1,5436 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,027964	
	The calculation is based on the internal chronic dose.	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Oral model: direct intake, Uptake model: Uptake fraction	
	Consumer - oral, long-term - systemic	
Exposure estimate	0,0538 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,000975	
	The calculation is based on the internal chronic dose.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp		

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## 17. Short title of exposure scenario

Use in Adhesives, Use in Surface treatment products, Wood treatment, Use in Wood articles, Consumer applications

C; C; ERC8c, ERC8f; PC1

# Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8c: Widespread use leading to inclusion into/onto article (indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario	
Use descriptors covered	ERC8f: Widespread use leading to inclusion into/onto article (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario		
Use descriptors covered	PC1_2: Subcategory: Glues DIY-use (carpet glue, tile glue, wood parquet glue)	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 10 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 10 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	< 1 uses per year	
Room size	1 m3	
Ventilation rate per hour	0,6	
Temperature (Application)	20 °C	
body weight	65 kg	

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Uptake fraction dermal	100 %
	Amount per use 0,2 g Relevant for dermal exposure
	estimates
Release area	320 cm <sup>2</sup>
	Release area is constant
Release duration	10 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	its source
Accompant mathed	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant
	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0006 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000011
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,0194 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,002064
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	

Contributing exposure scenario		
	PC1_2: Subcategory: Glues DIY-use (carpet glue, tile glue,	
Use descriptors covered	wood parquet glue)	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 30 %	
Vapour pressure of the substance	130 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 75 min	
	Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 75 min	
	Relevant for inhalative exposure estimates	
Duration and Frequency of activity	< 1 uses per year	
Room size	58 m3	
Ventilation rate per hour	0,5	
Temperature (Application)	20 °C	
body weight	65 kg	

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Uptake fraction dermal	100 %
Release area	40000 cm <sup>2</sup>
	Release area is constant
Release duration	75 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	75 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to i	its source
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: constant
	Consumer - dermal long-term - systemic
Exposure estimate	0.0071 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000129
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,0978 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,010405
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	

Contributing exposure scenario		
Use descriptors covered	PC1_2: Subcategory: Glues DIY-use (carpet glue, tile glue, wood parquet glue)	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 30 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 240 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	< 1 uses per year	
Room size	58 m3	
Ventilation rate per hour	0,5	
Temperature (Application)	20 °C	
body weight	65 kg	

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Amount per use 0,5 g Relevant for dermal exposure estimates   Release area 10000 cm <sup>2</sup> Release area is constant   Release duration 240 min   Relevant for inhalative exposure estimates   Exposure estimate and reference to its source   Assessment method EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
estimates   Release area 10000 cm²   Release area is constant   Release duration 240 min   Relevant for inhalative exposure estimates   Exposure estimate and reference to its source   Assessment method EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
Release area 10000 cm²   Release area is constant   Release duration 240 min   Relevant for inhalative exposure estimates   Exposure estimate and reference to its source   Assessment method EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
Release area is constant   Release duration 240 min   Relevant for inhalative exposure estimates   Exposure estimate and reference to its source   Assessment method EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
Release duration 240 min   Relevant for inhalative exposure estimates   Exposure estimate and reference to its source   Assessment method EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
Relevant for inhalative exposure estimates     Exposure estimate and reference to its source     Assessment method   EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
Exposure estimate and reference to its source     Assessment method   EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
Assessment method EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
application, Uptake model: Uptake fraction	
Consumer - dermal, long-term - systemic	
Exposure estimate 0,0016 mg/kg bw/day	
Risk Characterization Ratio (RCR) 0,000029	
The calculation is based on the internal chronic dose.	
Assessment method EASY TRA v4.2, ConsExpo v4.1, Inhalation model:	
exposure to vapour - evaporation	
Consumer - inhalation, long-term - systemic	
Exposure estimate 0,1408 mg/m <sup>3</sup>	
Risk Characterization Ratio (RCR) 0,014979	
The exposure calculation is based on the mean	
concentration per year.	
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario		
Use descriptors covered	PC1_2: Subcategory: Glues DIY-use (carpet glue, tile glue, wood parquet glue)	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 480 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 480 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	< 1 uses per year	
Room size	58 m3	
Ventilation rate per hour	0,5	
Temperature (Application)	20 °C	
body weight	65 kg	
Uptake fraction dermal	100 %	

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Release area	10000 cm <sup>2</sup>
	Release area is constant
Release duration	480 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	480 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: constant
	application rate, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0152 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000275
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,3041 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,032355
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/h	ealthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario		
Use descriptors covered	PC1_2: Subcategory: Glues DIY-use (carpet glue, tile glue, wood parquet glue)	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 30 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 30 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	2 uses per year	
Room size	20 m3	
Ventilation rate per hour	0,6	
Temperature (Application)	20 °C	
body weight	65 kg	
Uptake fraction dermal	100 %	

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	Amount per use 0,25 g Relevant for dermal exposure
	estimates
Release area	10000 cm <sup>2</sup>
	Release area increases over time
Release duration	30 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant
	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0063 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000115
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	1,2723 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,135346
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario		
Use descriptors covered	PC1_1: Subcategory: Glues, hobby use	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 30 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 5 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	12 uses per year	
Room size	20 m3	
Ventilation rate per hour	0,6	
Temperature (Application)	20 °C	
body weight	65 kg	
Uptake fraction dermal	100 %	
	Amount per use 0,025 g Relevant for dermal exposure	

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	estimates	
Release area	2 cm <sup>2</sup>	
	Release area increases over time	
Release duration	5 min	
	Relevant for inhalative exposure estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant	
	application, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	0,0038 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,000069	
	The calculation is based on the internal chronic dose.	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:	
	exposure to vapour - evaporation	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	0,0155 mg/m³	
Risk Characterization Ratio (RCR)	0,001647	
	The exposure calculation is based on the mean	
	concentration per year.	
Guidance to Downstream Users		

Contributing exposure scenario		
Use descriptors covered	PC1_1: Subcategory: Glues, hobby use	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 30 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 5 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 5 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	3 uses per year	
Room size	1 m3	
Ventilation rate per hour	0,6	
Temperature (Application)	20 °C	
body weight	65 kg	
Uptake fraction dermal	100 %	
	Amount per use 0,05 g Relevant for dermal exposure estimates	
Release area	20 cm <sup>2</sup>	

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	Release area is constant
Release duration	5 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant
	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0019 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000034
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,0763 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,008118
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	

Contributing exposure scenario		
Use descriptors covered	PC1_1: Subcategory: Glues, hobby use	
Operational conditions		
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 30 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 30 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	3 uses per year	
Room size	20 m3	
Ventilation rate per hour	0,6	
Temperature (Application)	20 °C	
body weight	65 kg	
Uptake fraction dermal	100 %	
	Amount per use 0,1 g Relevant for dermal exposure estimates	
Release area	500 cm <sup>2</sup>	
	Release area increases over time	
Release duration	30 min	

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	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0038 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000069
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,153 mg/m³
Risk Characterization Ratio (RCR)	0,01628
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	

Contributing exposure scenario	
Use descriptors covered	PC1_1: Subcategory: Glues, hobby use
Operational conditions	
Concentration of the substance	ammonium chloride Content: >= 0 % - <= 30 %
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 45 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 30 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	3 uses per year
Room size	10 m3
Ventilation rate per hour	2
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
Release area	250 cm <sup>2</sup>
	Release area increases over time
Release duration	30 min
	Relevant for inhalative exposure estimates
Contact rate	50 mg/min
Release duration	30 min
	Relevant for dermal exposure estimates

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Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: constant
	application rate, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0569 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001031
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,2373 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,025246
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	

Contributing exposure scenario	
Use descriptors covered	PC1_1: Subcategory: Glues, hobby use
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 30 %
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 30 min
	Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per year
Room size	20 m3
Ventilation rate per hour	0,6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 0,5 g Relevant for dermal exposure estimates
Release area	15000 cm <sup>2</sup>
	Release area increases over time
Release duration	30 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant

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	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0063 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000115
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,9541 mg/m³
Risk Characterization Ratio (RCR)	0,101499
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	

Contributing exposure scenario	
Use descriptors covered	PC1_1: Subcategory: Glues, hobby use
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C
Duration and Fraguanay of activity	Exposure duration: 240 min
Duration and Frequency of activity	Relevant for inhalative exposure estimates
Duration and Fraguency of activity	Application duration: 10 min
Duration and Frequency of activity	Relevant for inhalative exposure estimates
Duration and Frequency of activity	52 uses per year
Room size	20 m3
Ventilation rate per hour	0,6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 0,08 g Relevant for dermal exposure
	estimates
Release area	200 cm <sup>2</sup>
	Release area increases over time
Release duration	10 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant application. Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic

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Exposure estimate	0,0088 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000159
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	1,411 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,150111
	The exposure calculation is based on the mean
	concentration on the day of exposure.
Guidance to Downstream Users	

Contributing exposure scenario	
Use descriptors covered	PC1_1: Subcategory: Glues, hobby use
Operational conditions	
	ammonium chloride
Concentration of the substance	Content: $> -0.\% = -5.\%$
Vapour pressure of the substance	130 Pa
during use	
	20 °C
Process temperature	
Duration and Frequency of activity	Exposure duration: 240 min
	Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 20 min
	Relevant for inhalative exposure estimates
Duration and Frequency of activity	52 uses per year
Room size	20 m3
Ventilation rate per hour	0,6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 0,08 g Relevant for dermal exposure
	estimates
Release area	400 cm <sup>2</sup>
<b>_</b>	Release area increases over time
Release duration	20 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to i	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: instant
	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0088 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000159

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	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:
	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	1,5604 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,166004
	The exposure calculation is based on the mean
	concentration on the day of exposure.
Guidance to Downstream Users	

Contributing exposure scenario		
Use descriptors covered	PC1_3: Subcategory: Glue from spray	
Operational conditions		
	ammonium chloride	
Concentration of the substance	Content: >= 0 % - <= 10 %	
Vapour pressure of the substance during use	130 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 240 min	
	Relevant for inhalative exposure estimates	
Duration and Frequency of activity	12 uses per year	
Room size	20 m3	
Ventilation rate per hour	0,6	
body weight	65 kg	
Uptake fraction dermal	100 %	
Spray duration	169,8 sec	
Contact rate	100 mg/min	
Release duration	2,83 min	
	Relevant for dermal exposure estimates	
Risk Management Measures		
Consumer Measures	Ensure spraying away from persons.	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Dermal model: constant	
	application rate, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	0,0143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0,000259	
	I he calculation is based on the internal chronic dose.	
Assessment method	EASY TRA v4.2, ConsExpo v4.1, Inhalation model:	
	Exposure to spray/dust	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	0,1799 mg/m³	

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Risk Characterization Ratio (RCR)	0,019135
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

## 18. Short title of exposure scenario

Use in Batteries, Consumer applications C; C; ERC9a, ERC9b; PC42

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC9a: Widespread use of functional fluid (indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario	
Use descriptors covered	ERC9b: Widespread use of functional fluid (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PC42: Electrolytes for batteries Use in closed system is assumed Exposure of the consumer can be ruled out.
Operational conditions	
Vapour pressure of the substance during use	130 Pa
Process temperature	20 °C

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

### 19. Short title of exposure scenario

Use in Batteries, Service life of articles, Consumer applications C; C; ERC10a, ERC11a, ERC12a; AC3

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## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC10a: Widespread use of articles with low release (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario	
Use descriptors covered	ERC11a: Widespread use of articles with low release (indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario	
Use descriptors covered	ERC12a: Processing of articles at industrial sites with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

**Operational conditions** 

Contributing exposure scenario	
Use descriptors covered	AC3: Electrical batteries and accumulators Use in closed system is assumed Exposure of the consumer can be ruled out.
Operational conditions	
Vapour pressure of the substance	130 Pa
during use	
Process temperature	20 °C

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*