

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: 15.12.2022

Version: 1.0

Date previous version: not applicable

Previous version: none

Date / First version: 15.12.2022

Product: **Na-Ethylate Crystals**

(ID no. 30036707/SDS_GEN_DE/EN)

Date of print 23.03.2023

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

1.1. Product identifier

Na-Ethylate Crystals

Chemical name: sodium ethylate

INDEX-Number: 603-041-00-8

CAS Number: 141-52-6

REACH registration number: 01-2119972296-27-0000

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

Relevant identified uses: Chemical

Recommended use: process chemical, Raw material

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

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

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

Flam. Sol. 1	H228 Flammable solid.
Self-heat. 1	H251 Self-heating: may catch fire.
Skin Corr./Irrit. 1B	H314 Causes severe skin burns and eye damage.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.

According to BASF current knowledge and application of the criteria given in Annex I of Regulation (EC) No. 1272/2008, the following classification exceeding the classification given in Regulation (EC) No 1272/2008, Annex VI, Table 3.1 is required.

Skin Corr./Irrit. 1A

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:



Signal Word:

Danger

Hazard Statement:

H228	Flammable solid.
H251	Self-heating: may catch fire.
H314	Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P260	Do not breathe dust or mist.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P235 + P410	Keep cool. Protect from sunlight.
P240	Ground and bond container and receiving equipment.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P303 + P361 + P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

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P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P370 + P378 In case of fire: Use foam, dry powder or dry sand for extinction.

Precautionary Statements (Storage):

P405 Store locked up.

P407 Maintain air gap between stacks or pallets.

P420 Store separately.

P413 Store bulk masses greater than 1,000 kg/2,205 lbs at temperatures not exceeding 25 °C/77 °F.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

EUH014: Reacts violently with water.

Hazard determining component(s) for labelling: sodium ethanolate

2.3. Other hazards

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

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.

When finely distributed, self-ignition is possible. The product is under certain conditions capable of dust explosion. Corrodes metals in the presence of water or moisture.

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.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

sodium ethanolate

CAS Number: 141-52-6

EC-Number: 205-487-5

INDEX-Number: 603-041-00-8

Flam. Sol. 1

Self-heat. 1

Skin Corr./Irrit. 1B

Eye Dam./Irrit. 1

H228, H251, H314

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EUH014

Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008

Flam. Sol. 1

Self-heat. 1

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

EUH014

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.

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

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 water, do not induce vomiting, seek medical attention.

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

Symptoms: skin corrosion, Eye irritation, Further symptoms are possible

Hazards: No hazard is expected under intended use and appropriate handling.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

dry powder, Dry sand, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water, carbon dioxide

5.2. Special hazards arising from the substance or mixture

Advice: Reacts violently with water. May release highly flammable and/or corrosive gases/vapours.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up. Correctly dispose of recovered product immediately.

For large amounts: Sweep/shovel up. Correctly dispose of recovered product immediately.

6.4. Reference to other sections

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

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Protect against moisture. Protect from air. Protect from direct sunlight.

Protection against fire and explosion:

Take precautionary measures against static discharges. Sources of ignition should be kept well clear. Fire extinguishers should be kept handy. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances.

Suitable materials for containers: Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass, High density polyethylene (HDPE), Carbon steel (Iron), Stainless steel 1.4541, Stainless steel 1.4571, Alkyd resin lacquer 441

Unsuitable materials for containers: Aluminium, Galvanized carbon steel (Zinc), Lead-plated, Paper/Fibreboard, tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Storage class according to TRGS 510 (originally VCI, Germany): (4.2) Pyrophoric or self-heating substances

7.3. Specific end use(s)

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

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

64-17-5: ethanol

Short Term Exposure Classification: (TRGS 900 (DE))
Category II: Substances with a resorptive effect

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OEL 380 mg/m³ ; 200 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 4

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

PNEC

freshwater: 0,96 mg/l

marine water: 0,79 mg/l

intermittent release: 2,75 mg/l

STP: 580 mg/l

sediment (freshwater): 3,6 mg/kg

sediment (marine water): 2,9 mg/kg

soil: 0,63 mg/kg

oral (secondary poisoning): 720 mg/kg

DNEL

worker:

Long-term exposure - systemic and local effects, Inhalation: 1 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Use gauntlets.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

fluoroelastomer (FKM) - 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.

Eye protection:

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Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

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

Avoid contact with the skin, eyes and clothing. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of dusts.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	solid	
Form:	powder, crystalline	
Colour:	white to slightly yellow	
Odour:	odourless	
Odour threshold:	not applicable, odour not perceivable	
melting point (decomposition):	260 °C	
	Literature data.	
	The substance / product decomposes.	
Boiling point:	(1.013,25 hPa)	
	The substance / product decomposes therefore not determined.	
decomposition point:	>= 260 °C	
	(1.013 hPa)	
	Literature data.	
Flammability:	highly flammable solid	(UN Test N.1 (ready combustible solids))
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, the product is a solid	
Auto-ignition temperature:	not applicable	
Thermal decomposition:	> 280 °C (DTA)	
	The indicated value is for inert gas atmosphere.	

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	> 50 °C	
	Risk of spontaneous ignition when exposed to air.	
SADT:	> 75 °C	
	Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)	
pH value:	12,8	
	(7 g/l, 20 °C)	
Viscosity, kinematic:		
	not applicable, the product is a solid	
Viscosity, dynamic:		
	Study scientifically not justified.	
Solubility in water:	hydrolyzes, spontaneous decomposition	
Solubility (qualitative) solvent(s):	alcohols	
	soluble	
<i>Information on: ethanol</i>		
Partitioning coefficient n-octanol/water (log Kow):	-0,31	(measured)
	(25 °C)	
	Literature data.	

Vapour pressure:	0,0000028 hPa	(calculated)
	(25 °C)	
Relative density:		
	No data available.	
Density:	0,868 g/cm ³	
	(20 °C)	
	Literature data.	
Relative vapour density (air):		
	The product is a non-volatile solid.	

Particle characteristics

Particle size distribution:	55,0 µm	(D10, ISO 13320-1)
	200,0 µm	(D90, ISO 13320-1)
	110,0 µm	(D50, ISO 13320-1)

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

Impact sensitivity:

Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Self-heating substances and mixtures

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Self heating ability: It is a substance capable of spontaneous heating. (Volume: 2,5 cm³) (UN Test N.4 (self heating substances))

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases: (Directive 92/69/EEC, A.12)
Forms no flammable gases in the presence of water.

Corrosion to metals

Corrosive effect on: - Aluminium - Corrodes metals in the presence of water or moisture.

Other safety characteristics

Bulk density: approx. 500 kg/m³ (DIN 53466)
(< 40 °C)

pKA: not applicable

Hygroscopy: hygroscopic
Adsorption/water - soil: KOC: 1,05; log KOC: 0,02 (calculated)
The product has not been tested.
The statement has been derived from the properties of the hydrolysis products.

Surface tension: 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.

Corrosion to metals: Corrosive effect on: Aluminium Corrodes metals in the presence of water or moisture.

Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.
Method: Flammability (contact with water)

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

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10.3. Possibility of hazardous reactions

Exothermic reaction. Reacts with water and acids. Reacts with substances which contain active hydrogen. Self heating possible in the presence of air. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.4. Conditions to avoid

Avoid humidity. Avoid contact with air.

10.5. Incompatible materials

Substances to avoid:
water, acids

10.6. Hazardous decomposition products

Hazardous decomposition products:
sodium hydroxide, ethanol

SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:
The toxicity of the product is based on its corrosivity.

Experimental/calculated data:
LD50 rat (oral): 598 mg/kg (OECD Guideline 401)

(dermal): Due to the corrosive properties of the substance higher doses cannot be tested. Study does not need to be conducted.

Information on: ethanol
Experimental/calculated data:
LC50 rat (by inhalation): 124,7 mg/l 4 h (BASF-Test)
The vapour was tested.

Irritation

Assessment of irritating effects:
Corrosive! Damages skin and eyes.

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Experimental/calculated data:

Skin corrosion/irritation

rabbit: Corrosive. (OECD Guideline 404)

Serious eye damage/irritation

: As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

Respiratory/Skin sensitization

Assessment of sensitization:

As the substance is corrosive, conducting sensitization studies is not feasible. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition. Skin sensitizing effects were not observed in animal studies. The substance did not cause skin sensitization in humans.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (similar to OECD guideline 429)

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

Patch test human: Non-sensitizing. (Human patch test)

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

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: ethanol

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Information on: ethanol

Assessment of carcinogenicity:

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The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen. The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect with high doses. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The toxicity of the product is based on its corrosivity.

Developmental toxicity

Assessment of teratogenicity:

Causes developmental effects in animals at high, maternally toxic doses. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The toxicity of the product is based on its corrosivity.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

The available information is not sufficient for the evaluation of specific target organ toxicity.

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

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. After repeated administration the prominent effect is the induction of corrosion.

Aspiration hazard

not applicable

Interactive effects

No data available.

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11.2. Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. The product gives rise to pH shifts. The ecotoxicological effects are solely caused by the pH.

Toxicity to fish:

LC50 (96 h) 13.000 mg/l, *Salmo gairdneri*, syn. *O. mykiss* (Fish test acute, static)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. Literature data.

Aquatic invertebrates:

LC50 (48 h) 12.340 mg/l, *Daphnia magna* (other, static)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. Literature data.

Aquatic plants:

EC50 (4 d) 1.000 mg/l, *Chlorella vulgaris* (Algal growth inhibition test)

Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Microorganisms/Effect on activated sludge:

Toxic limit concentration (16 h) 6.500 mg/l, *Pseudomonas putida* (other, aquatic)

Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

LC50 (10 d) 454 mg/l, *Daphnia magna* (Daphnia test chronic, static)

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The product has not been tested. The statement has been derived from the properties of the hydrolysis products. Literature data.

Information on:sodium hydroxide

Assessment of aquatic toxicity:

Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible. There is a high probability that the product is not acutely harmful to aquatic organisms.

The effect strongly depends on the pH-value. The data refers to the dissociated form of the substance.

Information on:ethanol

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on:sodium hydroxide

Toxicity to fish:

LC50 (96 h) 125 mg/l, Gambusia affinis (other, static)

The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. Literature data.

Information on:ethanol

Toxicity to fish:

LC50 (96 h) 13.000 mg/l, Salmo gairdneri, syn. O. mykiss (Fish test acute, static)

The details of the toxic effect relate to the nominal concentration. Literature data.

Information on:sodium hydroxide

Aquatic invertebrates:

EC50 (48 h) 40,4 mg/l, Ceriodaphnia sp. (other, static)

Literature data.

Information on:ethanol

Aquatic invertebrates:

LC50 (48 h) 12.340 mg/l, Daphnia magna (Daphnia test acute, static)

The details of the toxic effect relate to the nominal concentration. Literature data.

(48 h) 5.012 mg/l, Ceriodaphnia dubia (Daphnia test acute)

The details of the toxic effect relate to the nominal concentration. Literature data.

Information on:ethanol

Aquatic plants:

EC50 (4 d) 675 mg/l (growth rate), Chlorella vulgaris (Algal growth inhibition test)

The details of the toxic effect relate to the nominal concentration. Literature data.

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Information on: ethanol

Microorganisms/Effect on activated sludge:

Toxic limit concentration (16 h) 6.500 mg/l, Pseudomonas putida (other, aquatic)

The details of the toxic effect relate to the nominal concentration. Literature data.

Assessment of terrestrial toxicity:

No toxic effects have been observed in studies with terrestrial plants.

Soil living organisms:

LC50 (48 h) 100 - 1000 µg/cm², Eisenia foetida (Screening test, filter paper)

Terrestrial plants:

EC50 (6 d) 7.890 - 15.780 mg/l (Screening test)

Literature data.

Other terrestrial non-mammals:

No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product is unstable in water. The elimination data also refer to products of hydrolysis. The organic component of the product is biodegradable.

Elimination information:

89 % BOD of the ThOD (14 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))

Literature data.

Information on: ethanol

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Information on: ethanol

Elimination information:

89 % BOD of the ThOD (14 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))

Literature data.

84 % BOD of the ThOD (20 d) (other) (aerobic, activated sludge, domestic, non-adapted)

Literature data.

Assessment of stability in water:

In contact with water the substance will hydrolyse rapidly.

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Information on Stability in Water (Hydrolysis):
In contact with water the substance will hydrolyse rapidly.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:
Accumulation in organisms is not to be expected.
The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Bioaccumulation potential:
No data available.

Information on: ethanol

Assessment bioaccumulation potential:

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

12.4. Mobility in soil

Assessment transport between environmental compartments:
Adsorption in soil: Due to the product characteristics the test is impossible.

Information on: sodium hydroxide

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected. Study scientifically not justified.

Information on: ethanol

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

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).

12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of

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substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

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

12.8. Additional information

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not release untreated into natural waters. Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The local regulations on waste-water treatment must be followed.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Hydrolyze product with excess of water under usage of the personal protection equipment and dispose of in accordance with local authority regulations.

Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

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

UN number or ID number: UN3095

UN proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (SODIUM ETHYLATE/SODIUM ETHANOLATE)

Transport hazard class(es): 8, 4.2

Packing group: I

Environmental hazards: no

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Special precautions for user: : E

RID

UN number or ID number: UN3095

UN proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (SODIUM ETHYLATE/SODIUM ETHANOLATE)

Transport hazard class(es): 8, 4.2

Packing group: I

Environmental hazards: no

Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN3095

UN proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (SODIUM ETHYLATE/SODIUM ETHANOLATE)

Transport hazard class(es): 8, 4.2

Packing group: I

Environmental hazards: no

Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3095

UN proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (SODIUM ETHYLATE/SODIUM ETHANOLATE)

Transport hazard class(es): 8, 4.2

Packing group: I

Environmental hazards: no

Marine pollutant: NO

Special precautions for user: EmS: F-A; S-N

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Product: **Na-Ethylate Crystals**

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Air transport

IATA/ICAO

UN number or ID number: UN 3095

UN proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (SODIUM ETHYLATE/SODIUM ETHANOLATE)

Transport hazard class(es): 8, 4.2

Packing group: I

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: None known

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.

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.

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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: 40, 75

Hazardous Incident Ordinance (Germany):

List entry in regulation: 1.4.1

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

List entry in regulation: O1

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting.

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)

Self-heat. 1

Flam. Sol. 1

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

chemical industry

Flam. Sol.

Flammable solids

Self-heat.

Self-heating substances and mixtures

Skin Corr./Irrit.

Skin corrosion/irritation

Eye Dam./Irrit.

Serious eye damage/eye irritation

H228

Flammable solid.

H251

Self-heating: may catch fire.

H314

Causes severe skin burns and eye damage.

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

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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

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1. Manufacture of substance, Formulation of solutions
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SU3; SU3; ERC2; PROC3, PROC8a, PROC8b, PROC9, PROC15
3. Manufacture of substance, (handling as solid)
SU3; SU3; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15
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SU3; SU3; ERC2; PROC3, PROC8a, PROC8b, PROC9, PROC15
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1. Short title of exposure scenario

Manufacture of substance, Formulation of solutions
SU3; SU3; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	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	
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	
Concentration of the substance	sodium ethanolate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0284 mg/m ³
Risk Characterization Ratio (RCR)	0,028354
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,000275 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	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs	

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followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %

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Product: **Na-Ethylate Crystals**

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Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in	

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place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

2. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (liquid products)
SU3; SU3; ERC2; PROC3, PROC8a, PROC8b, PROC9, PROC15

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	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	sodium ethanolate Content: >= 0 % - <= 100 %

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Product: **Na-Ethylate Crystals**

(ID no. 30036707/SDS_GEN_DE/EN)

Date of print 23.03.2023

Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use	

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suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	

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For scaling see: <http://www.ecetoc.org/tra> Please note that a modified version has been used (see exposure estimates)

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

3. Short title of exposure scenario

Manufacture of substance, (handling as solid)

SU3; SU3; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

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Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	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	
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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,01
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
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Date of print 23.03.2023

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, high dustiness

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Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Product: **Na-Ethylate Crystals**

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Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in	

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place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	

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Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic

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Product: **Na-Ethylate Crystals**

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Exposure estimate	0,9 mg/m ³
Risk Characterization Ratio (RCR)	0,9
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	

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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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,875 mg/m ³
Risk Characterization Ratio (RCR)	0,875
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
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Contributing exposure scenario

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Product: **Na-Ethylate Crystals**

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Date of print 23.03.2023

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,9 mg/m ³
Risk Characterization Ratio (RCR)	0,9
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	

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Product: **Na-Ethylate Crystals**

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Date of print 23.03.2023

Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C

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Product: **Na-Ethylate Crystals**

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Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,84 mg/m ³
Risk Characterization Ratio (RCR)	0,84
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Product: **Na-Ethylate Crystals**

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Local exhaust ventilation	Effectiveness: 90 %
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use	

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suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

4. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (handling as solid)
 SU3; SU3; ERC2; PROC3, PROC8a, PROC8b, PROC9, PROC15

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	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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Product: **Na-Ethylate Crystals**

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Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	
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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air	Effectiveness: 30 %

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changes per hour)	
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place	

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are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,9 mg/m ³
Risk Characterization Ratio (RCR)	0,9
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m ³

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Risk Characterization Ratio (RCR)	0,7
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	

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exposure estimates)

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Use suitable chemically resistant gloves.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,875 mg/m ³
Risk Characterization Ratio (RCR)	0,875
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,9 mg/m ³
Risk Characterization Ratio (RCR)	0,9
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	
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	sodium ethanolate

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,84 mg/m ³
Risk Characterization Ratio (RCR)	0,84
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Vapour pressure of the substance	0,000275 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	
Local exhaust ventilation	Effectiveness: 90 %
Use suitable chemically resistant gloves.	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %

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Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	

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Date previous version: not applicable

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

5. Short title of exposure scenario

Use in chemical synthesis, (liquid products), (handling as solid)

SU3; SU3; ERC4, ERC6b; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or 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	ERC6b: Use of reactive processing aid at industrial site (no inclusion into or 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	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	sodium ethanolate Content: >= 0 % - <= 100 %

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Date previous version: not applicable

Previous version: none

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Product: **Na-Ethylate Crystals**

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Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0284 mg/m ³
Risk Characterization Ratio (RCR)	0,028354
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Product: **Na-Ethylate Crystals**

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Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with	

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substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment

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	Worker - dermal
Guidance to Downstream Users	
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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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial

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Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 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	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to	

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prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

6. Short title of exposure scenario

Use as an intermediate

SU3; SU3; ERC6b; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

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	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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C

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Product: **Na-Ethylate Crystals**

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0284 mg/m ³
Risk Characterization Ratio (RCR)	0,028354
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to	

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prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Product: **Na-Ethylate Crystals**

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Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,000275 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	

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Product: **Na-Ethylate Crystals**

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

7. Short title of exposure scenario

Use in laboratories, Use as laboratory reagent/agent
SU22; SU22; ERC8a, ERC8b; PROC15

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	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	PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Concentration of the substance	sodium ethanolate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0,000275 Pa

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Product: **Na-Ethylate Crystals**

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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	
Avoid skin contact. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid contact with eyes. Provide specific employee training to prevent/minimize exposures. Avoid frequent and direct contact with substance.	
Wear suitable working clothes., Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,2835 mg/m ³
Risk Characterization Ratio (RCR)	0,283543
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	
