

# Safety data sheet

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Date / Revised: 05.01.2023

Version: 2.1

Date previous version: 16.12.2022

Previous version: 2.0

Date / First version: 24.11.2022

Product: **Ammonium sulfate special grade**

(ID no. 30042199/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

## Ammonium sulfate special grade

Chemical name: Ammonium sulphate

CAS Number: 7783-20-2

REACH registration number: 01-2119455044-46-0000, 01-2119455044-46-0001

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

Relevant identified uses: Chemical

Recommended use: fertilizers, Chemical, Intermediate, process chemical, Fire extinguishing compounds, Laboratory chemicals

### 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]

No need for classification according to GHS criteria for this product.

### 2.2. Label elements

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

The product does not require a hazard warning label in accordance with GHS criteria.

### 2.3. Other hazards

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

No specific dangers known, if the regulations/notes for storage and handling are considered.

The product does not contain a substance above legal limits fulfilling the PBT

(persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Chemical nature

Ammonium sulphate

CAS Number: 7783-20-2

EC-Number: 231-984-1

$\epsilon$ -caprolactam

Content (W/W): < 0,5 %

CAS Number: 105-60-2

EC-Number: 203-313-2

INDEX-Number: 613-069-00-2

Acute Tox. 4 (Inhalation - dust)

Acute Tox. 4 (oral)

Skin Corr./Irrit. 2

Eye Dam./Irrit. 2

STOT SE 3 (irr. to respiratory syst.)

H319, H315, H335, H302 + H332

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#### Regulatory relevant ingredients

| No particular hazards known.

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

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

### **4.1. Description of first aid measures**

Remove contaminated clothing.

If inhaled:

After inhalation of dust. Fresh air. If difficulties occur: Seek medical attention. After inhalation of decomposition products: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

On ingestion:

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

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

Symptoms: (Further) symptoms and / or effects are not known so far

Hazards: After inhalation of decomposition products: Risk of pulmonary edema. Symptoms can appear later.

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

Treatment: After inhalation of decomposition products: Pulmonary odema prophylaxis.

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

### **5.1. Extinguishing media**

Suitable extinguishing media:

water spray, foam, dry powder

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

Advice: See SDS section 7 - Handling and storage.

Temperature limit: 235 °C

Endangering substances: ammonia, anhydrous

Endangering substances: nitrogen oxides, sulfur oxides

Advice: The substances/groups of substances mentioned can be released in case of fire.

## 5.3. Advice for fire-fighters

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## SECTION 6: Accidental Release Measures

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

Handle in accordance with good industrial hygiene and safety practice. Information regarding personal protective measures, see section 8.

### 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Retain and dispose of contaminated wash water.

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

For large amounts: Sweep/shovel up.

For residues: Sweep/shovel up. Rinse away with water.

### 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

Handle in accordance with good industrial hygiene and safety practice.

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

Segregate from alkalis and alkalizing substances. Segregate from nitrites and alkaline substances.

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Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), Aluminium, Polyester resin, glass reinforced (Palatal A410), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE)

Further information on storage conditions: Protect against moisture. The substance/product may cake under the influence of moisture.

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

Storage stability:

Storage temperature: 20 °C

Storage duration: 24 Months

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

#### PNEC

freshwater: 0,312 mg/l

marine water: 0,0312 mg/l

intermittent release: 0,53 mg/l

STP: 16,18 mg/l

sediment (freshwater): 0,063 mg/kg

soil: 62,6 mg/kg

#### DNEL

worker:

Long-term exposure- systemic effects, dermal: 42,67 mg/kg bw/day

worker:

Long-term exposure- systemic effects, Inhalation: 11,17 mg/m<sup>3</sup>

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consumer:

Long-term exposure- systemic effects, oral: 6,4 mg/kg bw/day

consumer:

Long-term exposure- systemic effects, Inhalation: 1,67 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, dermal: 12,8 mg/kg bw/day

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

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

Body protection:

Body protection must be chosen based on level of activity and exposure.

### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. At the end of the shift the skin should be cleaned and skin-care agents applied.

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## SECTION 9: Physical and Chemical Properties

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

State of matter:

solid

Form:

crystalline

Colour:

white

Odour:

odourless

Odour threshold:

No data available.

melting point (decomposition): approx. 350 °C

(other)

The substance / product decomposes.

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onset of boiling:		(other)
	The substance / product decomposes therefore not determined.	
Flammability:	not flammable	(other)
Lower explosion limit:	not applicable	
Upper explosion limit:	not applicable	
Flash point:		(other)
	The substance/product is non-combustible.	
Auto-ignition temperature:	not applicable	
Self-ignition temperature:		Test type: Self-ignition at high temperatures. (Method: other)
	The value has not be determined because of the low risk of self-ignition in consequence of the high flash-point.	
Thermal decomposition:	> 235 °C (internal method)	
	To avoid thermal decomposition, do not overheat.	
pH value:	approx. 5 (100 g/l, 20 °C)	(pH Meter)
Viscosity, kinematic:	not applicable, the product is a solid	
Viscosity, dynamic:	not applicable	
Solubility in water:		(internal method)
	764 g/l (20 °C)	
		(internal method)
	843 g/l (50 °C)	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	
Vapour pressure:	0,0000001 hPa (25 °C)	(measured)
	Literature data.	
Relative density:	1,77 (25 °C, 1.013 hPa)	(other)
	Literature data.	
Density:	1,766 g/cm <sup>3</sup> (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	not applicable, The product is a non-volatile solid.	

Particle characteristics

Particle size distribution: 560 µm (D50, calculated)

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## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

Explosion hazard: Based on the chemical structure (other)  
there is no indication of explosive properties.

Impact sensitivity: not shock-sensitive  
Based on the chemical structure there is no shock-sensitivity.

#### Oxidizing properties

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

#### Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.  
(Method: other)

not self-igniting

#### Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

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

Formation of flammable gases:  
Forms no flammable gases in the presence of water.

### Other safety characteristics

Bulk density: 1.000 kg/m<sup>3</sup> (other)  
(20 °C)

Adsorption: Study scientifically not justified.

Surface tension: (other)  
Based on chemical structure, surface activity is not to be expected.

Evaporation rate: not applicable, 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.



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Formation of  
flammable gases:

Remarks:

Forms no flammable gases in the  
presence of water.

## 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

Evolution of ammonia under influence of alkalis. Reacts with alkalis and nitrites.

## 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

## 10.5. Incompatible materials

Substances to avoid:

alkaline reactive substances, nitrites

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

ammonia, anhydrous

# SECTION 11: Toxicological Information

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

### Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion. Of low toxicity after short-term skin contact.

Experimental/calculated data:

LD50 rat (oral): 4.250 mg/kg (BASF-Test)

(by inhalation): Study does not need to be conducted.

LD50 rat (dermal): > 2.000 mg/kg

Literature data.

*Information on: Ammonium sulphate*

*Assessment of acute toxicity:*

*Of low toxicity after single ingestion. Of low toxicity after short-term skin contact.*

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### Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (BASF-Test)

Serious eye damage/irritation

rabbit: non-irritant (BASF-Test)

### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (other)

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 studies with mammals.

Experimental/calculated data:

Ames-test

negative (OECD Guideline 471)

Cytogenetic assay

negative (OECD Guideline 473)

Literature data.

HGPRT assay

CHO cells: negative (OECD Guideline 476)

### Carcinogenicity

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#### Assessment of carcinogenicity:

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

#### Reproductive toxicity

##### Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Developmental toxicity

##### Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### 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:

No substance-specific organotoxicity was observed after repeated administration to animals.

#### Aspiration hazard

not applicable

#### Interactive effects

No data available.

## 11.2. Information on other hazards

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### 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.

### Other information

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

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

Toxicity to fish:

LC50 (96 h) 53 mg/l, *Oncorhynchus mykiss* (Fish test acute)

Aquatic invertebrates:

EC50 (48 h) 121,7 mg/l, *Ceriodaphnia* sp. (Daphnia test acute, static)

Aquatic plants:

EC50 (18 d) 2.700 mg/l (growth rate), *Chlorella vulgaris* (other)

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

Microorganisms/Effect on activated sludge:

EC20 (0,5 h) approx. 1.050 mg/l, activated sludge (OECD Guideline 209, aquatic)

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

Chronic toxicity to aquatic invertebrates:

EC10 (70 d) 3,12 mg/l (semistatic)

Soil living organisms:

LC50 (14 d) 201 mg/kg, *Eisenia foetida* (artificial soil)

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

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Other terrestrial non-mammals:

Study scientifically not justified.

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Inorganic product which cannot be eliminated from water by biological purification processes. Can be oxidized to nitrate, or be reduced to nitrogen, by microorganisms.

Elimination information:

Study scientifically not justified.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

Bioaccumulation potential:

Study scientifically not justified.

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

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

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): 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 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.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Test for use in agriculture.  
Contact manufacturer.

Contaminated packaging:

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

## SECTION 14: Transport Information

### Land transport

ADR

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

RID

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

### Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable

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Environmental hazards: Not applicable  
 Special precautions for user: None known

Transport in inland waterway vessel

Not classified as a dangerous good under transport regulations  
 UN number or ID number: Not applicable  
 UN proper shipping name: Not applicable  
 Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable

Sea transport

## IMDG

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

Air transport

## IATA/ICAO

Not classified as a dangerous good under transport regulations  
 UN number or ID number: Not applicable  
 UN proper shipping name: Not applicable  
 Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for 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**

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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.

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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: 75

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

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

Listed in above regulation: no

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

5.2.1: total dust, including fine dust

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 296

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



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(ID no. 30042199/SDS\_GEN\_DE/EN)

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## 15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

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## SECTION 16: Other Information

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

Aquatic Acute 3

Acute Tox. 5 (oral)

### Abbreviations

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

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

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