

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev. Date / Revised: 22.11.2022 Product: **BAS 560 00 I** 

Version: 1.0

(ID no. 1078790/SDS\_CPA\_00/EN)

Date of print 28.11.2022

# 1. Identification

Product identifier

# BAS 560 00 I

Recommended use: crop protection product, insecticide

# Details of the supplier of the safety data sheet

Company: BASF SE 67056 Ludwigshafen GERMANY

Telephone: +49 621 60-0

# **Emergency telephone number**

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

# 2. Hazards Identification

# Classification of the substance or mixture

According to UN GHS criteria

Acute Tox. 4 (oral) Acute Tox. 4 (Inhalation - mist) STOT RE (Pancreas, Submandibular gland) 2 Aquatic Acute 1 Aquatic Chronic 2

For the classifications not written out in full in this section the full text can be found in section 16.

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# Label elements

Globally Harmonized System (GHS)

Pictogram:

Signal Word:



Warning Hazard Statement: H302 + H332 Harmful if swallowed or if inhaled May cause damage to organs (Pancreas, Submandibular gland) H373 through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life. **Precautionary Statement:** If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. P103 Read carefully and follow all instructions. Precautionary Statements (Prevention): P271 Use only outdoors or in a well-ventilated area. P260 Do not breathe dust/gas/mist/vapours. P270 Do not eat, drink or smoke when using this product. Wash contaminated body parts thoroughly after handling. P264 Precautionary Statements (Response): P312 Call a POISON CENTER or physician if you feel unwell. P304 + P340IF INHALED: Remove person to fresh air and keep comfortable for breathing. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth P391 Collect spillage. Precautionary Statements (Disposal): P501 Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS): May produce an allergic reaction. Contains: 1,2-Benzisothiazol-3(2H)-one, mixture of: 5-chloro-2methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### According to UN GHS criteria

Hazard determining component(s) for labelling: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8-tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate

#### Other hazards

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#### According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

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.

# 3. Composition/Information on Ingredients

#### Substances

Not applicable

#### **Mixtures**

#### Chemical nature

crop protection product, insecticide

Hazardous ingredients (GHS) According to UN GHS criteria

(3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8-tetrahydro [1,3]thiazolo [3,2-a]pyrimidin-4-ium-5-olate

Content (W/W): 18,28 % CAS Number: 2413390-32-4 Acute Tox. 5 (Inhalation - dust) Acute Tox. 4 (oral) STOT RE (Pancreas, Submandibular gland) 2 (oral) Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 10 M-factor chronic: 1 H333, H302, H373, H400, H410

Residues (petroleum), catalytic reformer fractionator, sulfonated,polymers with formaldehyde, sodium salts

Content (W/W): < 5 % CAS Number: 68425-94-5 Eye Dam./Irrit. 2A Aquatic Acute 3 Aquatic Chronic 3 H319, H402, H412

1,2-Benzisothiazol-3(2H)-one

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Content (W/W): < 0,05 %

CAS Number: 2634-33-5

INDEX-Number: 613-088-00-6

EC-Number: 220-120-9

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Acute Tox. 4 (oral) Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 1 M-factor chronic: 1 H318, H315, H302, H317, H400, H410

Specific concentration limit: Skin Sens. 1: >= 0,05 %

mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Content (W/W): < 0,0015 % CAS Number: 55965-84-9 INDEX-Number: 613-167-00-5 Acute Tox. 3 (oral) Acute Tox. 2 (Inhalation - mist) Acute Tox. 2 (dermal) Skin Corr./Irrit. 1C Eye Dam./Irrit. 1 Skin Sens. 1A Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 100 M-factor chronic: 100 H301, H317, H314, H310 + H330, H400, H410 EUH071

Specific concentration limit: Skin Sens. 1A: >= 0,0015 % Eye Dam./Irrit. 1: >= 0,6 % Eye Dam./Irrit. 2: 0,06 - < 0,6 % Skin Corr./Irrit. 1C: >= 0,6 % Skin Corr./Irrit. 2: 0,06 - < 0,6 %

Propane-1,2-diol Content (W/W): < 10 % CAS Number: 57-55-6 EC-Number: 200-338-0

For the classifications not written out in full in this section the full text can be found in section 16.

#### 4. First-Aid Measures

# Description of first aid measures

Remove contaminated clothing.

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

On skin contact: Wash thoroughly with soap and water

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On contact with eyes:

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

On ingestion:

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

# Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

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

# 5. Fire-Fighting Measures

#### **Extinguishing media**

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

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

Carbon monoxide, Carbon dioxide, Hydrogen chloride, nitrogen oxides, sulfur oxides, halogenated compounds, silica compounds

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

#### Advice for fire-fighters

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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.

# 6. Accidental Release Measures

# Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

#### **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

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Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

# 7. Handling and Storage

#### Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion: No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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

Segregate from foods and animal feeds. Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability: Storage duration: 24 Months

#### 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.

# 8. Exposure Controls/Personal Protection

#### **Control parameters**

Components with occupational exposure limits

57-55-6: Propane-1,2-diol

#### **Exposure controls**

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

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

Body protection:

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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).

<u>General safety and hygiene measures</u> The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

# 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Form: Colour: Odour: Odour threshold:	liquid off-white to beige woody	
pH value:	Not determined since harmful by inhalation. approx. 4 - 6	
Melting point:	(CIPAC standard water D, 20 °C) approx. 0 °C	
Boiling point:	Information applies to the solvent. approx. 100 °C Information applies to the solvent.	
Flash point:	Non-flammable.	
Evaporation rate:		
Flammability: Lower explosion limit:	not applicable not applicable	
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	
	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	
Ignition temperature:	approx. 510 °C	
Vapour pressure:	approx. 23,4 hPa (20 °C)	
Density:	Information applies to the solvent. approx. 1,09 g/cm3 (20 °C)	
Relative vapour density (air):		
Solubility in water:	not applicable dispersible	

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Partitioning coefficient n-octanol/water (log Kow): The statements are based on the properties of the individual components. Information on: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate Partitioning coefficient n-octanol/water (log Kow): approx. 1,4 (20 °C; pH value: 4 - 9) Thermal decomposition: 190 °C, 120 kJ/kg (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. Viscosity, dynamic: approx. 96,63 mPa.s Viscosity, kinematic: 84,5 mm2/s (40 °C) Explosion hazard: not explosive Fire promoting properties: not fire-propagating

# Other information

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

# **10. Stability and Reactivity**

#### Reactivity

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

#### **Chemical stability**

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

#### Possibility of hazardous reactions

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

#### **Conditions to avoid**

See SDS section 7 - Handling and storage.

#### Incompatible materials

Substances to avoid: strong acids, strong bases, strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

# **11. Toxicological Information**

Information on toxicological effects

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#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data: LD50 rat (oral): > 300 - < 500 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 2,81 mg/l (OECD Guideline 403) An aerosol was tested.

LD50 rat (dermal): > 2.000 mg/kg (OECD Guideline 402) No mortality was observed.

#### Irritation

Assessment of irritating effects: Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Experimental/calculated data: Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

#### Germ cell mutagenicity

Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Carcinogenicity

Assessment of carcinogenicity:

The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

#### 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 the properties of the individual components.

#### **Developmental toxicity**

Assessment of teratogenicity:

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Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Specific target organ toxicity (single exposure)

#### Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

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

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate Assessment of repeated dose toxicity: Repeated oral exposure may affect certain organs.

Information on: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. Based on available data, the classification criteria are not met.

#### Aspiration hazard

No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Other relevant toxicity information

Misuse can be harmful to health.

#### **12. Ecological Information**

#### Toxicity

Assessment of aquatic toxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Toxicity to fish: LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss

Aquatic invertebrates: EC50 (48 h) 0,09791 mg/l, Chironomus riparius

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EC50 (48 h) 77 mg/l, Daphnia magna

Aquatic plants: EC50 (72 h) > 50,486 mg/l, Pseudokirchneriella subcapitata

EC10 (72 h) > 50,486 mg/l, Pseudokirchneriella subcapitata

Information on: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate Chronic toxicity to fish: No observed effect concentration (28 d) 10 mg/l, Pimephales promelas

Information on: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d) > 15,051 mg/l, Daphnia magna

EC10 (21 d) 10,565 mg/l, Daphnia magna

No observed effect concentration (21 d) 0,044 mg/l, Chironomus riparius

EC10 (21 d) 0,037 mg/l, Chironomus riparius

#### Persistence and degradability

Assessment biodegradation and elimination (H2O): The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

**Bioaccumulative potential** 

Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate Assessment bioaccumulation potential: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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# Mobility in soil

Assessment transport between environmental compartments: Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: (3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate Assessment transport between environmental compartments: Adsorption in soil: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

# Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

#### Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control.

# **13. Disposal Considerations**

### Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

# 14. Transport Information

#### Land transport

ADR

UN number or ID number: UN proper shipping name:	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE)
Transport hazard class(es): Packing group: Environmental hazards: Special precautions for	9, EHSM III yes
user:	None known

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UN3082

UN number or ID number:

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UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE)	
Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user:	9, EHSM III yes None known	
<u>Inland waterway transport</u> ADN		
UN number or ID number: UN proper shipping name:	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE)	
Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user:	9, EHSM III yes None known	
<u>Transport in inland waterway vessel</u> Not evaluated		
<u>Sea transport</u>		
IMDG		
UN number or ID number: UN proper shipping name:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE)	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE) 9, EHSM III yes	
UN proper shipping name: Transport hazard class(es): Packing group:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE) 9, EHSM III	
UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Special precautions for	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE) 9, EHSM III yes Marine pollutant: YES	
UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRIMIDINE) 9, EHSM III yes Marine pollutant: YES	

Transport hazard class(es): 9, EHSM Packing group: III

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Environmental hazards: yes Special precautions for None known user:

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

Maritime transport in bulk is not intended.

#### **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

# 15. Regulatory Information

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

To avoid risks to man and the environment, comply with the instructions for use.

# **16. Other Information**

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:		
Acute Tox.	Acute toxicity	
STOT RE	Specific target organ toxicity — repeated exposure	
Aquatic Acute	Hazardous to the aquatic environment - acute	
Aquatic Chronic	Hazardous to the aquatic environment - chronic	
Eye Dam./Irrit.	Serious eye damage/eye irritation	
Skin Corr./Irrit.	Skin corrosion/irritation	
Skin Sens.	Skin sensitization	
H333	May be harmful if inhaled.	
H302	Harmful if swallowed.	
H373	May cause damage to organs (Pancreas, Submandibular gland) through	
	prolonged or repeated exposure (oral).	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H319	Causes serious eye irritation.	
H402	Harmful to aquatic life.	
H412	Harmful to aquatic life with long lasting effects.	
H318	Causes serious eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H301	Toxic if swallowed.	
H314	Causes severe skin burns and eye damage.	
H310 + H330	Fatal in contact with skin or if inhaled	
EUH071	Corrosive to the respiratory tract.	

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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.