

# Safety data sheet

Page: 1/14

BASF Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

# 1. Identification

**Product identifier** 

# **Pirate**

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

Relevant identified uses: crop protection product, insecticide

# Details of the supplier of the safety data sheet

Company: BASF SE 67056 Ludwigshafen GERMANY Operating Division Crop Protection

Telephone: +49 621 60-27777 E-mail address: Produktinformation-Pflanzenschutz@basf.com

# **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. 3 (oral) Acute Tox. 2 (Inhalation - mist) Skin Corr./Irrit. 3 STOT SE (Central nervous system) 2

Page: 2/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

STOT RE (Central nervous system) 2 Aquatic Acute 1 Aquatic Chronic 1

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

# Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word: Danger

Hazard Statement:	
H316	Causes mild skin irritation.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H371	May cause damage to organs (Central nervous system).
H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary Stater	nent:
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
Precautionary Stater	
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/gas/mist/vapours.
P284	In case of inadequate ventilation wear respiratory protection.
P264	Wash contaminated body parts thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
Precautionary Stater	nents (Response):
P310	Immediately call a POISON CENTER or physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
P330	Rinse mouth
P391	Collect spillage.
Precautionary Stater	nents (Storage):
P403 + P233 P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements (Disposal):

Page: 3/14

Version: 6.0

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

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

According to UN GHS criteria

Hazard determining component(s) for labelling: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile

#### Other hazards

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, suspension concentrate (SC)

Hazardous ingredients (GHS) According to UN GHS criteria

chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile

Content (W/W): 21,4 % CAS Number: 122453-73-0 INDEX-Number: 608-034-00-3 STOT SE (Central nervous system) 2 STOT RE (Central nervous system) 2 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 100 H330, H301, H371, H373, H400, H410

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

Page: 4/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: Pirate

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

CAS Number: 2634-33-5

EC-Number: 220-120-9

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

Acute Tox. 4 (oral) Skin Corr./Irrit. 2 Eve Dam./Irrit. 1 NDEX-Number: 613-088-00-6 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 %

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

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). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

#### On contact with eyes:

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. If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting unless told to by a poison control center or doctor. Take patient to hospital immediately. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Medical monitoring for at least 7 days.

#### 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

Page: 5/14

Version: 6.0

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

Section 11., (Further) symptoms and / or effects are not known so far, Symptoms of poisoning may only appear after several hours or several days.

#### 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, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons: water jet

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

Carbon monoxide, Carbon dioxide, Hydrogen chloride, Hydrogen bromide, nitrogen oxides, silicon oxides, halogenated 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:

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

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

#### **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.

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

Page: 6/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN) Date of print 14.12.2023

# 7. Handling and Storage

### Precautions for safe handling

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

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: 36 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 122453-73-0: Chlorfenapyr TWA value 0,3 mg/m3 (BASF recomm. occupational exposure limit)

#### **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:

Page: 7/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: Pirate

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

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:	liquid	
Colour:	white to light brown	
Odour:	sweetish, characteristic	
Odour threshold:		
	Not determined since toxic by	
	inhalation.	
pH value:	approx. 6 - 8	
	(approx. 25 °C)	
	(measured with the undiluted	
_ · · · /	substance)	
Freezing point:	approx. 0 °C	
	(1.013,3 hPa)	
Doiling point	Information applies to the solvent.	
Boiling point:	approx. 100 °C (1.013 mbar)	
	Information applies to the solvent.	
Flash point:	information applies to the solvent.	(Regulation 440/2008/EC, A.9)
r lash point.	Non-flammable.	(Regulation 440/2000/20, A.3)
Evaporation rate:	Non hammable.	
	not applicable	
Flammability:	not applicable	
Lower 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.	
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.	
Ignition temperature:	> 651 °C	(Regulation 440/2008/EC,
ignation tomporation.		A.15)
Vapour pressure:	approx. 23,3 hPa	· ··· - /
	(20 °C)	
	Information applies to the solvent.	

Page: 8/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

Density:	approx. 1,13 g/cm3	
	(20 °C)	
Relative vapour density (	(air):	
	not applicable	
Solubility in water:	dispersible	
Partitioning coefficient n-	octanol/water (log Kow):	
	not applicable	
Thermal decomposition:	210 °C, 260 kJ/kg (DSC (OECD 113))	
	(onset temperature)	
	Not a substance liable to self-decompo	osition according to UN transport
	regulations, class 4.1.	
Viscosity, dynamic:	approx. 757 mPa.s	
	(20 °C)	
Explosion hazard:	not explosive	
Fire promoting properties		(Regulation 440/2008/EC, A.21)
		,

#### 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

Acute toxicity

Page: 9/14

Version: 6.0

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

Assessment of acute toxicity:

Of high toxicity after short-term inhalation. Of pronounced toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data: LD50 mouse (oral): > 50 - < 300 mg/kg The data on toxicology refer to the active ingredient. Same product LD50 is assigned for precautionary reasons in view of human poisoning incidents

LC50 rat (by inhalation): 0,411 mg/l 4 h (OECD Guideline 403) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. An aerosol was tested.

LD50 rabbit (dermal): > 2.000 mg/kg No mortality was observed.

Information on: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile

Experimental/calculated data: LD50 mouse (oral): > 50 - < 300 mg/kg (OECD Guideline 401)

#### Irritation

Assessment of irritating effects: Skin contact causes slight irritation. Not irritating to the eyes.

Experimental/calculated data: Skin corrosion/irritation rabbit: Slightly irritating. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

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

Experimental/calculated data: modified 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:

Page: 10/14

Version: 6.0

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

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

#### Reproductive toxicity

Assessment of reproduction toxicity:

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

#### **Developmental toxicity**

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single: A single exposure may have relevant toxic effects on organs.

Target organ: Central nervous system 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: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. Affects the central nervous system.

#### 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

Reported human health effects after incorporation: immediate symptoms after oral ingestion may comprise nausea, vomiting, sweating and abdominal pain. Subsequent symptoms emerging with a delay of a few days up to 10-14 days may include drowsiness, tachypnea, tachycardia or arrhythmia, hypertension, fever, diaphoresis, muscle fasciculation, muscle stiffness, weakness of limbs (sometimes leading to paralysis), hepatic and renal dysfunction, pancreatitis, and sudden disturbance of consciousness followed by coma and cardiac arrest. Misuse can be fatal.

Page: 11/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN) Date of print 14.12.2023

# **12. Ecological Information**

#### Toxicity

Assessment of aquatic toxicity: Very toxic to aquatic life with long lasting effects. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish: LC50 (96 h) 0,108 mg/l, Oncorhynchus mykiss (Flow through.)

Aquatic invertebrates: EC50 (48 h) 0,0121 mg/l, Daphnia magna (static)

Aquatic plants: EC50 (72 h) 4,09 mg/l, Selenastrum capricornutum (OECD Guideline 201)

Information on: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile Chronic toxicity to fish: No observed effect concentration (93 d) 0,003678 mg/l, Oncorhynchus mykiss

Information on: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile Chronic toxicity to aquatic invertebrates: No observed effect concentration (28 d) 0,000172 mg/l, Mysidopsis bahia

#### 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: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

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#### **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: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile Bioaccumulation potential: Bioconcentration factor: 116, Cyprinus carpio Accumulation in organisms is not to be expected.

Page: 12/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN) Date of print 14.12.2023

#### 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.

Information on: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile Assessment transport between environmental compartments: Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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:	UN2902
UN proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (contains CHLORFENAPYR)
Transport hazard class(es	): 6.1, EHSM
Packing group:	III
Environmental hazards:	yes
Special precautions for	Tunnel code: E

Page: 13/14

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: Pirate

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN) Date of print 14.12.2023

user:

RID

UN number or ID number: UN2902 UN proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains CHLORFENAPYR) Transport hazard class(es): 6.1, EHSM Packing group: Ш Environmental hazards: yes Special precautions for None known user:

#### Inland waterway transport ADN

UN number or ID number: UN2902 UN proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains CHLORFENAPYR) Transport hazard class(es): 6.1, EHSM Packing group: Ш Environmental hazards: ves Special precautions for None known user:

Transport in inland waterway vessel Not evaluated

# Sea transport

#### IMDG

UN number or ID number:	UN 2902
UN proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (contains CHLORFENAPYR)
Transport hazard class(es):	6.1, EHSM
Packing group:	
Environmental hazards:	yes
	Marine pollutant: YES
Special precautions for	None known
user:	

# Air transport

#### IATA/ICAO

UN number or ID number:	UN 2902
UN proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (contains CHLORFENAPYR)
Transport hazard class(es):	6.1
Packing group:	
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for	None known
user:	

Safety data sheet according to UN GHS 4th rev. Date / Revised: 31.01.2022 Product: **Pirate** 

Version: 6.0

(ID no. 30260809/SDS\_CPA\_00/EN)

Date of print 14.12.2023

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

Maritime transport in bulk is not intended.

# **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
Skin Corr./Irrit.	Skin corrosion/irritation
STOT SE	Specific target organ toxicity — single exposure
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 Sens.	Skin sensitization
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H371	May cause damage to organs (Central nervous system).
H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

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.