

# Iron(III) Chloride 2 %

Revision date: 07.09.2023

Product code: 12019.xxxxx

according to UK REACH Regulation

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

# 1.1. Product identifier

Iron(III) Chloride 2 %

UFI:

1W82-E1KK-800A-8E2G

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

#### Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

#### Uses advised against

Any non-intended use.

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

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 142/144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.de	
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Germany	ν, Tel: +49(0)6131/19240

## number:

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

# GB CLP Regulation

Hazard components for labelling Iron(III) chloride

Signal word:

Pictograms:



#### Hazard statements

H314Causes severe skin burns and eye damage.H317May cause an allergic skin reaction.

#### Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water or shower.



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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/doctor.	

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

## **Chemical characterization**

aqueous solution

#### Hazardous components

CAS No	Chemical name	Chemical name		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7705-08-0	Iron(III) chloride	Iron(III) chloride		
	231-729-4		01-2119497998-05	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H302 H315 H318 H317			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name			
	Specific Conc. I	imits, M-factors and ATE			
7705-08-0	231-729-4	Iron(III) chloride	1 - < 5 %		
dermal: LD50 = >2000 mg/kg; oral: LD50 = 450 mg/kg					

# **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

When in doubt or if symptoms are observed, get medical advice. Provide fresh air. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment. Medical treatment necessary.



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#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink 1 glass of of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Do not allow a neutralisation agent to be drunk. Rinse mouth immediately and drink plenty of water. Observe risk of aspiration if vomiting occurs. Immediately call a POISON CENTER/doctor/.

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

No information available.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

#### Unsuitable extinguishing media

High power water jet.

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

Non-flammable.In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Hydrogen chloride (HCI).

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. (See section 8.)

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

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

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Rinse with water.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

according to UK REACH Regulation

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# Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. (See section 8.) Take off contaminated clothing and wash it before reuse. Protect skin by using skin protective cream.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

#### Further information on handling

Conditions to avoid: Generation/formation of aerosols

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Recommended storage temperature: 15-25 °C

Unsuitable materials for Container: metal.

# Hints on joint storage

Do not store together with: Oxidizing substances. Food and fodder

#### Further information on storage conditions

Keep/Store only in original container.

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

Use as laboratory reagent.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **DNEL/DMEL** values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
7705-08-0	Iron(III) chloride				
Worker DNEL,	long-term	dermal	systemic	2,8 mg/kg bw/day	

#### Additional advice on limit values

To date, no national critical limit values exist.

# 8.2. Exposure controls



# Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations. Use extractor hood (laboratory).

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles. Suitable eye protection: goggles. Suitable eye protection: Tightly sealed safety glasses. EN 166



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# Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374 Suitable material: (penetration time (maximum wearing period): >= 8 Stunden): NR (Natural rubber (Caoutchouc), Natural latex). (0,5 mm) CR (polychloroprenes, Chloroprene rubber). (0,5 mm) NBR (Nitrile rubber). (0,11 mm) FKM (fluororubber). (0,4 mm) PVC (Polyvinyl chloride). (0,5 mm) Butyl rubber. (0,5 mm) Butyl rubber. (0,5 mm)

before taking off and air them well.

#### Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron.

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: generation/formation of aerosols

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Partikelfilter P2/ P3

# Environmental exposure controls

Do not empty into drains.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	orange - brown	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		No information available.
Boiling point or initial boiling point and		~100 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not applicable
Decomposition temperature:		not determined
pH-Value (at 20 °C):		1-2
Viscosity / kinematic:		not determined
Water solubility:		completely miscible
(at 20 °C)		
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		23 hPa
(at 20 °C)		23 IF a
Vapour pressure:		not determined
Density (at 20 °C):		1,01 g/cm <sup>3</sup>
Density (at $20$ O).		1,01 g/cm



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Bulk density:	not determined	
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Information with regard to physical hazard class	ses	
Explosive properties		
The product is not: Explosive. The product is n		
Sustaining combustion:	Not sustaining combustion	
Self-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:	not determined	
Solid content:	not determined	
Sublimation point:	not applicable	
Softening point:	not applicable	
Pour point:	not applicable	
Viscosity / dynamic:	not determined	
Flow time:	not determined	

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Possibility of hazardous reactions. Stable under normal storage and handling conditions.

#### 10.2. Chemical stability

Stable under normal storage and handling conditions.

# 10.3. Possibility of hazardous reactions

Exothermic reaction with: Base, Peroxides, Oxidizing agent. Violent reaction with: alkalines

#### 10.4. Conditions to avoid

Protect against: heat. frost.

#### 10.5. Incompatible materials

Keep away from: Base, Oxidizing agent, Peroxides. Alkali metals. May be corrosive to metals. Reducing agents, strong. strong alkalis. Strong acid. Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Hydrogen chloride (HCI).

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

## Acute toxicity

Based on available data, the classification criteria are not met.

# **ATEmix calculated**

ATE (oral) 22500 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name	Chemical name				
	Exposure route	Dose		Species	Source	Method
7705-08-0	Iron(III) chloride					
	oral	LD50 mg/kg	450	Rat	Gestis	
	dermal	LD50 mg/kg	>2000	Rabbit	Gestis	

#### Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data) Causes serious eye damage. (On basis of test data)

#### Sensitising effects

May cause an allergic skin reaction. (Iron(III) chloride)

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

## Aspiration hazard

Based on available data, the classification criteria are not met.

# 11.2. Information on other hazards

## Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
7705-08-0	Iron(III) chloride						
	Acute fish toxicity	LC50 22,56 mg/l	20,95-		Pimephales promelas (fathead minnow)	suppliers SDS.	
	Acute crustacea toxicity	EC50 mg/l	27,9		Daphnia magna (Big water flea)	suppliers SDS.	

# 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

No information available.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7705-08-0	Iron(III) chloride	-4



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R	C	F
D	C	г

CAS No	Chemical name	BCF	Species	Source
7705-08-0	Iron(III) chloride	2756-9622		

# 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

No information available.

# Further information

Avoid release to the environment. Do not allow uncontrolled discharge of product into the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Consult the local waste disposal expert about waste disposal.

#### List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Non-contaminated packages may be recycled.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

#### Inland waterways transport (ADN)

14.1. UN number or ID number: 14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Marine transport (IMDG)

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

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14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user Warning: strongly corrosive. No informa 14.7. Maritime transport in bulk according to No information available.		
<ul> <li>14.6. Special precautions for user</li> <li>Warning: strongly corrosive. No informa</li> <li>14.7. Maritime transport in bulk according to</li> </ul>		
<ul> <li>14.6. Special precautions for user Warning: strongly corrosive. No information</li> <li>14.7. Maritime transport in bulk according to No information available.</li> <li>SECTION 15: Regulatory information</li> </ul>		
<ul> <li>14.6. Special precautions for user Warning: strongly corrosive. No information</li> <li>14.7. Maritime transport in bulk according to No information available.</li> <li>SECTION 15: Regulatory information</li> </ul>	o IMO instruments	
<ul> <li>14.6. Special precautions for user Warning: strongly corrosive. No information in bulk according to No information available.</li> <li>SECTION 15: Regulatory information</li> <li>15.1. Safety, health and environmental regulation</li> </ul>	o IMO instruments	
<ul> <li>14.6. Special precautions for user Warning: strongly corrosive. No information 14.7. Maritime transport in bulk according to No information available.</li> <li>SECTION 15: Regulatory information</li> <li>15.1. Safety, health and environmental regulatory information Restrictions on use (REACH, annex XVII):</li> </ul>	o IMO instruments	
<ul> <li>14.6. Special precautions for user Warning: strongly corrosive. No information 14.7. Maritime transport in bulk according to No information available.</li> <li>SECTION 15: Regulatory information</li> <li>15.1. Safety, health and environmental regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to 2012/18/EU</li> </ul>	o IMO instruments	
<ul> <li>14.6. Special precautions for user Warning: strongly corrosive. No information: 14.7. Maritime transport in bulk according to No information available.</li> <li>SECTION 15: Regulatory information</li> <li>15.1. Safety, health and environmental regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to 2012/18/EU (SEVESO III):</li> </ul>	<b>IMO instruments</b> Iations/legislation specific for the substance or mixture         Not subject to 2012/18/EU (SEVESO III)         Observe restrictions to employment for juveniles according to the 'juvenile	
<ul> <li>14.6. Special precautions for user Warning: strongly corrosive. No information 14.7. Maritime transport in bulk according to No information available.</li> <li>SECTION 15: Regulatory information</li> <li>15.1. Safety, health and environmental regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to 2012/18/EU (SEVESO III): National regulatory information</li> </ul>	Intersection and the substance or mixture Not subject to 2012/18/EU (SEVESO III)	

For the following substances of this mixture a chemical safety assessment has been carried out: Iron(III) chloride

# **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 14,16. Rev. 2,0; 26.01.2023; Individual safety data sheet based on 10174\_collect Rev. 2,1; 02.08.2023; general adjustment(s) Rev. 2,2; 07.09.2023; Change of transport labelling

# Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)



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GHS: Globally Harmonized System of Classification and Labelling of Chemicals OSHA: Occupational Safety and Health Administration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level LOAEL: Lowest observed adverse effect level NOAEC: No observed adverse effect level LOAEC: Lowest observed adverse effect concentration DNEL: Derived No Effect Level PNEC: predicted no effect concentration TSCA: Toxic Substances Control Act IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER NTP: National Toxicology Program SARA: Superfund Amendments and Reauthorization Act GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) PBT: Persistent bioaccumulative toxic SVHC: substance of very high concern CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service **DNEL: Derived No Effect Level** DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data
Skin Sens. 1; H317	Calculation method

#### Relevant H and EUH statements (number and full text) H302 Harmful if swallowed.



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H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)