

**Eisen(III)-chlorid x 6H<sub>2</sub>O 98% puriss.**

Version number: GHS 1.0

Date of compilation: 2020-08-14

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

**1.1 Product identifier**

Identification of the substance **Eisen(III)-chlorid x 6H<sub>2</sub>O 98% puriss.**  
 Registration number (REACH) this information is not available  
 CAS number 10025-77-1  
 Article number A0216025

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

Relevant identified uses General use

**1.3 Details of the supplier of the safety data sheet**

Chemos GmbH & Co. KG  
 Sonnenring 7  
 84032 Altdorf  
 Germany

Telephone: +49 871-966346-0  
 Telefax: +49 871-966346-13  
 e-mail: chemos@chemos.de  
 Website: <http://www.chemos.de/>

e-mail (competent person) chemos@chemos.de

**1.4 Emergency telephone number**

Emergency information service +49 89 1 92 40

| Poison centre  |   |                      |                   |         |
|----------------|---|----------------------|-------------------|---------|
| Country        | Name  | Postal code/<br>city | Telephone         | Telefax |
| United Kingdom | National Poison Information Centre<br>Medical Toxicology Unit | SE14 5ER Lon-<br>don | +44 171 635 91 91 |         |

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class                             | Category | Hazard class and cat-<br>egory | Hazard state-<br>ment |
|---------|--|----------|--------------------------------|-----------------------|
| 2.16    | substance or mixture corrosive to metals | 1        | Met. Corr. 1                   | H290                  |
| 3.10    | acute toxicity (oral)                    | 4        | Acute Tox. 4                   | H302                  |
| 3.2     | skin corrosion/irritation                | 2        | Skin Irrit. 2                  | H315                  |
| 3.3     | serious eye damage/eye irritation        | 1        | Eye Dam. 1                     | H318                  |

For full text of abbreviations: see SECTION 16.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word danger

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**- Pictograms**

GHS05, GHS07

**- Hazard statements**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

**- Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P321 Specific treatment (see on this label).  
P390 Absorb spillage to prevent material damage.  
P501 Dispose of contents/container to industrial combustion plant.

**2.3 Other hazards**

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

|                   |  |
|-------------------|--|
| Name of substance | Eisen(III)-chlorid x 6H <sub>2</sub> O 98% puriss. |
| Identifiers       |  |
| CAS No            | 10025-77-1   |
| Molecular formula | Cl <sub>3</sub> Fe*6H <sub>2</sub> O               |
| Molar mass        | 270.3 g <sub>mol</sub>                             |

**SECTION 4: First aid measures****4.1 Description of first aid measures****General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

**Following skin contact**

Rinse skin with water/shower.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

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

Substance or mixture corrosive to metals.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

- Ventilation requirements

Use local and general ventilation.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

**7.3 Specific end use(s)**

See section 16 for a general overview.

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

**8.1 Control parameters**

| Occupational exposure limit values (Workplace Exposure Limits) |               |        |            |           |                          |            |                           |                 |                                |          |           |
|--|---------------|--------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-----------|
| Country  | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source    |
| GB   | dust          |        | WEL        |           | 10                       |            |                           |                 |                                | i        | EH40/2005 |
| GB   | dust          |        | WEL        |           | 4                        |            |                           |                 |                                | r        | EH40/2005 |

Notation

Ceiling-C

i

r

STEL

TWA

ceiling value is a limit value above which exposure should not occur

inhalable fraction

respirable fraction

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average (unless otherwise specified)

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**8.2 Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

|                |                |
|----------------|----------------|
| Physical state | solid          |
| Colour         | various        |
| Odour          | characteristic |

**Other safety parameters**

|   |                                   |
|---|-----------------------------------|
| pH (value)                              | not applicable                    |
| Melting point/freezing point            | 37 °C                             |
| Initial boiling point and boiling range | 280 – 285 °C                      |
| Flash point                             | not applicable                    |
| Evaporation rate                        | not determined                    |
| Flammability (solid, gas)               | non-combustible                   |
| Explosion limits of dust clouds         | not determined                    |
| Vapour pressure                         | not determined                    |
| Density                                 | not determined                    |
| Vapour density                          | this information is not available |

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|                             |   |
|-----------------------------|---|
| Relative density            | information on this property is not available |
| Solubility(ies)             | not determined                                |
| Partition coefficient       |   |
| - n-octanol/water (log KOW) | this information is not available             |
| Auto-ignition temperature   | not determined                                |
| Viscosity                   | not relevant (solid matter)                   |
| Explosive properties        | none  |
| Oxidising properties        | none  |

**9.2 Other information**

|               |       |
|---------------|-------|
| Solid content | 100 % |
|---------------|-------|

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. Substance or mixture corrosive to metals.

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

**10.5 Incompatible materials**

There is no additional information.

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Classification according to GHS (1272/2008/EC, CLP)**

Acute toxicity

Harmful if swallowed.

- Acute toxicity estimate (ATE)

Oral 500 mg/kg

Skin corrosion/irritation

Causes skin irritation.

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Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

|  |   |
|--|---|
| <b>14.1 UN number</b>  | 3260  |
| <b>14.2 UN proper shipping name</b>  | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.                            |
| Technical name   | Eisen(III)-chlorid x 6H <sub>2</sub> O 98% puriss.                    |
| <b>14.3 Transport hazard class(es)</b>   |   |
| Class  | 8 (corrosive substances)  |
| <b>14.4 Packing group</b>  | III (substance presenting low danger)                                 |
| <b>14.5 Environmental hazards</b>  | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                                       |   |
| Provisions for dangerous goods (ADR) should be complied within the premises.   |   |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b> |   |
| The cargo is not intended to be carried in bulk.                               |   |

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

|                      |  |
|----------------------|--|
| UN number            | 3260                                       |
| Proper shipping name | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. |
| Class                | 8  |
| Classification code  | C2   |
| Packing group        | III  |
| Danger label(s)      | 8  |



|                               |      |
|-------------------------------|------|
| Special provisions (SP)       | 274  |
| Excepted quantities (EQ)      | E1   |
| Limited quantities (LQ)       | 5 kg |
| Transport category (TC)       | 3    |
| Tunnel restriction code (TRC) | E    |
| Hazard identification No      | 80   |
| Emergency Action Code         | 2X   |



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**International Maritime Dangerous Goods Code (IMDG)**

|                      |  |
|----------------------|--|
| UN number            | 3260                                       |
| Proper shipping name | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. |
| Class                | 8  |
| Marine pollutant     | -  |
| Packing group        | III  |
| Danger label(s)      | 8  |



|                          |           |
|--------------------------|-----------|
| Special provisions (SP)  | 223, 274  |
| Excepted quantities (EQ) | E1        |
| Limited quantities (LQ)  | 5 kg      |
| EmS                      | F-A, S-B  |
| Stowage category         | A         |
| Segregation group        | 1 - Acids |

**International Civil Aviation Organization (ICAO-IATA/DGR)**

|                      |  |
|----------------------|--|
| UN number            | 3260                                       |
| Proper shipping name | Corrosive solid, acidic, inorganic, n.o.s. |
| Class                | 8  |
| Packing group        | III  |
| Danger label(s)      | 8  |



|                          |      |
|--------------------------|------|
| Special provisions (SP)  | A3   |
| Excepted quantities (EQ) | E1   |
| Limited quantities (LQ)  | 5 kg |

**SECTION 15: Regulatory information**

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

**Relevant provisions of the European Union (EU)**

**Deco-Paint Directive (2004/42/EC)**

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

**Directive on industrial emissions (VOCs, 2010/75/EU)**

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

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**National inventories**

| Country | Inventory | Status              |
|---------|-----------|---------------------|
| AU      | AICS      | substance is listed |
| CN      | IECSC     | substance is listed |
| NZ      | NZIoC     | substance is listed |
| PH      | PICCS     | substance is listed |
| TW      | TCSI      | substance is listed |

**Legend**

|       |   |
|-------|---|
| AICS  | Australian Inventory of Chemical Substances                             |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| NZIoC | New Zealand Inventory of Chemicals                                      |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| TCSI  | Taiwan Chemical Substance Inventory                                     |

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: Other information**

**Abbreviations and acronyms**

| Abbr.     | Descriptions of used abbreviations  |
|-----------|---|
| ADN       | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR       | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C | Ceiling value   |
| CLP       | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)  |
| EH40/2005 | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )                                 |
| EmS       | Emergency Schedule  |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA      | International Air Transport Association   |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO      | International Civil Aviation Organization   |
| IMDG      | International Maritime Dangerous Goods Code   |
| MARPOL    | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| PBT       | Persistent, Bioaccumulative and Toxic   |
| ppm       | Parts per million   |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals  |

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| Abbr. | Descriptions of used abbreviations  |
|-------|---|
| RID   | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL  | Short-term exposure limit   |
| TWA   | Time-weighted average   |
| VOC   | Volatile Organic Compounds  |
| vPvB  | Very Persistent and very Bioaccumulative  |
| WEL   | Workplace exposure limit  |

**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

| Code | Text                        |
|------|-----------------------------|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed.       |
| H315 | Causes skin irritation.     |
| H318 | Causes serious eye damage.  |

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.