

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Iron(III) chloride solution 0.1 mol/l - 0.1 M solution in diluted hydrochloric acid

Revision date: 01.03.2024

Product code: 20481

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

### 1.1. Product identifier

Iron(III) chloride solution 0.1 mol/l - 0.1 M solution in diluted hydrochloric acid

UFI: NDQT-C18H-D00Q-SWAJ

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

|                         |                                  |                              |
|-------------------------|----------------------------------|------------------------------|
| Company name:           | AnalytiChem GmbH                 |                              |
|                         | ACD                              |                              |
| Street:                 | Stempelstraße 6                  |                              |
| Place:                  | D-47167 Duisburg                 |                              |
| Telephone:              | 0203/5194-0                      | Telefax: 0203/5194-290       |
| E-mail:                 | info@analytichem.de              |                              |
| Contact person:         | Abteilung Produktsicherheit      | Telephone: 0203/5194-107/117 |
| E-mail:                 | produktsicherheit@analytichem.de |                              |
| Internet:               | www.analytichem.de               |                              |
| Responsible Department: | Abteilung Produktsicherheit      |                              |

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

This product is a mixture. REACH Registration Number see section 3.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Met. Corr. 1; H290

Eye Irrit. 2; H319

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

iron trichloride

Signal word: Warning

Pictograms:



#### Hazard statements

H290

May be corrosive to metals.

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H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixtures in aqueous solution

##### Relevant ingredients

| CAS No    | Chemical name   |              |                  | Quantity  |
|-----------|---|--------------|------------------|-----------|
|           | EC No   | Index No     | REACH No         |           |
|           | Classification (Regulation (EC) No 1272/2008)   |              |                  |           |
| 7647-01-0 | Hydrochloric acid   |              |                  | 1 - < 5 % |
|           | 231-595-7   | 017-002-01-X | 01-2119484862-27 |           |
|           | Skin Corr. 1B, STOT SE 3; H314 H335   |              |                  |           |
| 7705-08-0 | iron trichloride  |              |                  | 1 - < 5 % |
|           | 231-729-4   |              | 01-2119497998-05 |           |
|           | Met. Corr. 1, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H290 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     | Quantity  |
|-----------|--|-------------------|-----------|
|           | Specific Conc. Limits, M-factors and ATE   |                   |           |
| 7647-01-0 | 231-595-7  | Hydrochloric acid | 1 - < 5 % |
|           | Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100 |                   |           |
| 7705-08-0 | 231-729-4  | iron trichloride  | 1 - < 5 % |
|           | oral: ATE = 500 mg/kg  |                   |           |

##### Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

No data available

##### After inhalation

Provide fresh air.

##### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

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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.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Protect uninjured eye.

#### After ingestion

Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.

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

Irritant  
Allergic reactions

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

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

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

Non-combustible liquids  
Hazardous combustion products  
In case of fire may be liberated:  
Hydrogen chloride (HCl)

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.  
In case of fire and/or explosion do not breathe fumes.  
Avoid contact with skin, eyes and clothes.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

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

#### General advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

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#### For containment

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

- Clean contaminated articles and floor according to the environmental legislation.

#### Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 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

#### Advice on safe handling

- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Use personal protection equipment.
- Provide adequate ventilation. Avoid contact with skin, eyes and clothes.
- Do not breathe vapour/aerosol.

#### Advice on protection against fire and explosion

- Usual measures for fire prevention.

#### Advice on general occupational hygiene

- Keep away from food, drink and animal feedingstuffs. 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 or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

#### Further information on handling

- Draw up and observe skin protection programme.
- Wash hands and face before breaks and after work and take a shower if necessary.
- Take off immediately all contaminated clothing and wash it before reuse.

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

#### Requirements for storage rooms and vessels

- Corrosive to metals.
- Unsuitable container/equipment material: Metal
- The product develops hydrogen in an aqueous solution in contact with metals.

#### Further information on storage conditions

- Keep container tightly closed.
- Protect against: Light

### 7.3. Specific end use(s)

- Laboratory chemicals

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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**Occupational exposure limits**

| CAS No    | Substance         | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|-----------|-------------------|-----|-------------------|---------------------|---------------|--------|
| 7647-01-0 | Hydrogen chloride | 5   | 8                 |                     | TWA (8 h)     |        |
|           |                   | 10  | 15                |                     | STEL (15 min) |        |

**DNEL/DMEL values**

| CAS No    | Substance                | Exposure route | Effect | Value                |
|-----------|--------------------------|----------------|--------|----------------------|
| 7647-01-0 | Hydrochloric acid        |                |        |                      |
|           | Worker DNEL, long-term   | inhalation     | local  | 8 mg/m <sup>3</sup>  |
|           | Worker DNEL, acute       | inhalation     | local  | 15 mg/m <sup>3</sup> |
|           | Consumer DNEL, long-term | inhalation     | local  | 8 mg/m <sup>3</sup>  |
|           | Consumer DNEL, acute     | inhalation     | local  | 15 mg/m <sup>3</sup> |

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

**Eye/face protection**

goggles

Wear eye/face protection.

**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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing.

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Wash hands before breaks and after work.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### Thermal hazards

No data available

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

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

|   |                   |                           |
|---|-------------------|---------------------------|
| Physical state:   | Liquid            |                           |
| Colour:   | yellow            |                           |
| Odour:  | odourless         |                           |
| Odour threshold:  | No data available |                           |
| Melting point/freezing point:                             |                   | No data available         |
| Boiling point or initial boiling point and boiling range: |                   | No data available         |
| Flammability:   |                   | No data available         |
| Lower explosion limits:                                   |                   | No data available         |
| Upper explosion limits:                                   |                   | No data available         |
| Flash point:  |                   | No data available         |
| Auto-ignition temperature:                                |                   | No data available         |
| Decomposition temperature:                                |                   | No data available         |
| pH-Value:   |                   | 0,6                       |
| Viscosity / kinematic:                                    |                   | No data available         |
| Water solubility:   |                   | completely miscible       |
| Solubility in other solvents                              |                   |                           |
| No data available   |                   |                           |
| Dissolution rate:   |                   | No data available         |
| Partition coefficient n-octanol/water:                    |                   | No data available         |
| Dispersion stability:                                     |                   | No data available         |
| Vapour pressure:  |                   | No data available         |
| Vapour pressure:  |                   | No data available         |
| Density:  |                   | 1,02255 g/cm <sup>3</sup> |
| Relative density:   |                   | No data available         |
| Bulk density:   |                   | No data available         |
| Relative vapour density:                                  |                   | No data available         |
| Particle characteristics:                                 |                   | No data available         |

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

No data available

Sustaining combustion:

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

Oxidizing

#### Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

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|                      |                   |
|----------------------|-------------------|
| Solvent content:     | 0                 |
| Solid content:       | 0                 |
| Sublimation point:   | No data available |
| Softening point:     | No data available |
| Pour point:          | No data available |
| No data available:   |                   |
| Viscosity / dynamic: | No data available |
| Flow time:           | No data available |

**Further Information**

Corrosive to metals.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Corrosive to metals.

**10.2. Chemical stability**

Protect against: Light

**10.3. Possibility of hazardous reactions**

Alkali (lye)

**10.4. Conditions to avoid**

Light

**10.5. Incompatible materials**

Metal

The product develops hydrogen in an aqueous solution in contact with metals.

**10.6. Hazardous decomposition products**

In case of fire may be liberated:

SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information**

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

**Toxicokinetics, metabolism and distribution**

There are no data available on the preparation/mixture itself.

**Acute toxicity**

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

**ATEmix calculated**

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

| CAS No    | Chemical name    |                  |         |        |        |
|-----------|------------------|------------------|---------|--------|--------|
|           | Exposure route   | Dose             | Species | Source | Method |
| 7705-08-0 | iron trichloride |                  |         |        |        |
|           | oral             | ATE<br>mg/kg 500 |         |        |        |

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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**Sensitising effects**

May cause an allergic skin reaction. (iron trichloride)

**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.

**Information on likely routes of exposure**

There are no data available on the preparation/mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the preparation/mixture itself.

**Additional information on tests**

There are no data available on the preparation/mixture itself.

**Practical experience**

There are no data available on the preparation/mixture itself.

**11.2. Information on other hazards****Endocrine disrupting properties**

There are no data available on the preparation/mixture itself.

**Other information**

There are no data available on the preparation/mixture itself.

**Further information**

There are no data available on the preparation/mixture itself.

**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 |
| 7647-01-0 | Hydrochloric acid   |      |           |         |                |        |
|           | Acute fish toxicity | LC50 | 862 mg/l  | 96 h    | Leuciscus idus |        |

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

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

**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.

**Further information**

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.



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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

## Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.  
Send to a physico-chemical treatment facility under observation of official regulations.  
Do not empty into drains.

## Contaminated packaging

Handle contaminated packages in the same way as the substance itself.  
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.  
Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

## SECTION 14: Transport information

## Land transport (ADR/RID)

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1789           |
| <b>14.2. UN proper shipping name:</b>    | HYDROCHLORIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8                 |
| <b>14.4. Packing group:</b>              | III               |
| Hazard label:                            | 8                 |
| Classification code:                     | C1                |
| Special Provisions:                      | 520               |
| Limited quantity:                        | 5 L               |
| Excepted quantity:                       | E1                |
| Transport category:                      | 3                 |
| Hazard No:                               | 80                |
| Tunnel restriction code:                 | E                 |

## Inland waterways transport (ADN)

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1789           |
| <b>14.2. UN proper shipping name:</b>    | HYDROCHLORIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8                 |
| <b>14.4. Packing group:</b>              | III               |
| Hazard label:                            | 8                 |
| Classification code:                     | C1                |
| Special Provisions:                      | 520               |
| Limited quantity:                        | 5 L               |
| Excepted quantity:                       | E1                |

## Marine transport (IMDG)

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1789           |
| <b>14.2. UN proper shipping name:</b>    | HYDROCHLORIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8                 |
| <b>14.4. Packing group:</b>              | III               |
| Hazard label:                            | 8                 |
| Special Provisions:                      | 223               |
| Limited quantity:                        | 5 L               |
| Excepted quantity:                       | E1                |
| EmS:                                     | F-A, S-B          |

## Air transport (ICAO-TI/IATA-DGR)

|  |                   |
|--|-------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1789           |
| <b>14.2. UN proper shipping name:</b>    | HYDROCHLORIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8                 |

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|  |         |      |
|--|---------|------|
| <b>14.4. Packing group:</b>            | III     |      |
| Hazard label:                          | 8       |      |
| Special Provisions:                    | A3 A803 |      |
| Limited quantity Passenger:            | 1 L     |      |
| Passenger LQ:                          | Y841    |      |
| Excepted quantity:                     | E1      |      |
| IATA-packing instructions - Passenger: |         | 852  |
| IATA-max. quantity - Passenger:        |         | 5 L  |
| IATA-packing instructions - Cargo:     |         | 856  |
| IATA-max. quantity - Cargo:            |         | 60 L |

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 7,10.

**Abbreviations and acronyms**

- Met. Corr: Substance or mixture corrosive to metals
- Acute Tox: Acute toxicity
- Skin Corr: Skin corrosion
- Skin Irrit: Skin irritation
- Eye Dam: Eye damage
- Eye Irrit: Eye irritation
- Skin Sens: Skin sensitisation
- STOT SE: Specific target organ toxicity - single exposure

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data    |
| Eye Irrit. 2; H319 | Calculation method       |
| Skin Sens. 1; H317 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

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#### Further Information

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 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.

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