

acc. to Regulation (EC) No. 1907/2006 (REACH)

Hydrogen chloride

| | Version number: GHS 2.0 Replaces version of: 2022-09-09 (GHS 1) | | | | | |
|------|---|--------------------------------|--|--|--|--|
| SECT | ON 1: Identification of the substance/mixture | and of the company/undertaking | | | | |
| 1.1 | Product identifier | | | | | |
| | Trade name | Hydrogen chloride | | | | |
| | CAS number | 7647-01-0 | | | | |
| | Article number | A0304072 | | | | |
| 1.2 | Relevant identified uses of the substance or mix | ture 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 | | | | | |

| 1 olson centre | | | | |
|----------------|---|----------------------|-------------------|---------|
| Country | Name | Postal code/ city | Telephone | Telefax |
| United Kingdom | National Poison Information Centre Medical Toxicology Unit | SE14 5ER Lon- don | +44 171 635 91 91 | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and cat- egory | Hazard state- ment | |
|---------|--|----------|--------------------------------|-----------------------|--|
| 2.16 | substance or mixture corrosive to metals | 1 | Met. Corr. 1 | H290 | |
| 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

- Signal word danger
- Pictograms



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| GHS05 | |
|---------------------|--|
| - Hazard statemen | its |
| H290 | May be corrosive to metals. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| - Precautionary sta | atements |
| P234 | Keep only in original packaging. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| 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). |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P390 | Absorb spillage to prevent material damage. |
| P406 | Store in a corrosion-resistant container with a resistant inner liner. |

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\ge 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

| Identifiers | |
|-------------|--------------|
| CAS No | 7647-01-0 |
| EC No | 231-595-7 |
| Index No | 017-002-00-2 |
| (GB CLP) | |

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classificatio | n acc. to GHS | Pictograms |
|-------------------|---|----------|---------------|--|-----------------|
| hydrogen chloride | CAS No 7647-01-0 EC No 231-595-7 Index No 017-002-00-2 | 10-<25 | Acute Tox | s C / H280 (. 3 / H331 1A / H314 | |
| Name of substance | Specific Conc. | . Limits | M-Factors | ATE | Exposure route |
| hydrogen chloride | - | | - | >700 ^{ppmV} / _{4h} | inhalation: gas |



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Remarks

For full text of abbreviations: see SECTION 16

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

Wash with plenty of soap and water.

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.

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 spray, BC-powder, Carbon dioxide (CO2)

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.

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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

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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.

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. Use only in well-ventilated areas.

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

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

- 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.

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SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)

| Coun- try | Name of agent | CAS No | Identi- fier | | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [mg/m³] | | Source |
|--------------|-------------------|-----------|-----------------|---|----------------|---------------|-----------------|----------------------|----|----------------|
| EU | hydrogen chloride | 7647-01-0 | IOELV | 5 | 8 | 10 | 15 | | | 2000/ 39/EC |
| GB | hydrogen chloride | 7647-01-0 | WEL | 1 | 2 | 5 | 8 | | ga | EH40/ 2005 |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

as gases and aerosols

ga STEL 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)

TW/A 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)

Relevant DNELs of components

| Name of substance | CAS No | Endpoint | | Protection goal, route of exposure | Used in | Exposure time |
|-------------------|-----------|----------|----------|---------------------------------------|-------------------|-------------------------|
| hydrogen chloride | 7647-01-0 | DNEL | 8 mg/m³ | human, inhalatory | worker (industry) | chronic - local effects |
| hydrogen chloride | 7647-01-0 | DNEL | 15 mg/m³ | human, inhalatory | worker (industry) | acute - local effects |

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

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | liquid |
|--|-----------------|
| Colour | not determined |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | not determined |
| Flammability | non-combustible |
| Lower and upper explosion limit | not determined |
| Flash point | not determined |
| Auto-ignition temperature | not determined |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | not determined |
| Solubility(ies) | not determined |

Partition coefficient

| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|
|---|-----------------------------------|

| Vapour pressure | not determined |
|-----------------|----------------|
|-----------------|----------------|

Density and/or relative density

| Density | not determined |
|-------------------------|---|
| Relative vapour density | information on this property is not available |

| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|
| | |

9.2 Other information

| Information with regard to physical hazard classes | there is no additional information |
|--|------------------------------------|
|--|------------------------------------|



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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

0%

10.2 Chemical stability

Solid content

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

- Acute toxicity estimate (ATE)

Inhalation: gas >7,000 ^{ppmV}/_{4h}

Acute toxicity estimate (ATE) of components

| Name of substance | CAS No | Exposure route | ATE |
|-------------------|-----------|-----------------|--------------------------------------|
| hydrogen chloride | 7647-01-0 | inhalation: gas | >700 ^{ppmV} / _{4h} |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.



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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.

11.2 Information on other hazards

There is no additional information.

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

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of \geq 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

| 14.1 | UN number or ID number | |
|------|----------------------------|--|
| | ADR/RID | UN 1789 |
| | IMDG-Code | UN 1789 |
| | ICAO-TI | UN 1789 |
| 14.2 | UN proper shipping name | |
| | ADR/RID | HYDROCHLORIC ACID |
| | IMDG-Code | HYDROCHLORIC ACID |
| | ICAO-TI | Hydrochloric acid |
| 14.3 | Transport hazard class(es) | |
| | ADR/RID | 8 |
| | IMDG-Code | 8 |
| | ICAO-TI | 8 |
| 14.4 | Packing group | |
| | ADR/RID | П |
| | IMDG-Code | II |
| | ICAO-TI | II |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dan- gerous goods regulations |
| | | |

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information

| Classification code | |
|-------------------------------|-----|
| Danger label(s) | 8 |
| | |
| Special provisions (SP) | 520 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | Е |



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| es version of: 2022-09-09 (GHS 1) | | n: 2024 |
|--|--|---------|
| Hazard identification No | 80 | |
| Emergency Action Code | 2R | |
| Regulations concerning the Interna Additional information | tional Carriage of Dangerous Goods by Rail (RID) - | |
| Classification code | C1 | |
| Danger label(s) | 8 | |
| | | |
| Special provisions (SP) | 520 | |
| Excepted quantities (EQ) | E2 | |
| Limited quantities (LQ) | 1 L | |
| Transport category (TC) | 2 | |
| Hazard identification No | 80 | |
| International Maritime Dangerous | Goods Code (IMDG) - Additional information | |
| Marine pollutant | - | |
| Danger label(s) | 8 | |
| | | |
| Excepted quantities (EQ) | E2 | |
| Limited quantities (LQ) | 1 L | |
| EmS | F-A, S-B | |
| Stowage category | C | |
| Segregation group | 1 - Acids | |
| International Civil Aviation Organiz | ation (ICAO-IATA/DGR) - Additional information | |
| Danger label(s) | 8 | |
| | | |
| Special provisions (SP) | A3 | |
| Excepted quantities (EQ) | E2 | |
| Limited quantities (LQ) | 0,5 L | |

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU) Deco-Paint Directive

| VOC content | 0 % |
|--------------------------------------|-----|
| Industrial Emissions Directive (IED) | |
| VOC content | 0 % |



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National regulations (GB)

Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

| Dangerous substances with restrictions (GB REACH, Annex 17) | | | |
|---|---|--------|----|
| Name of substance | Name acc. to inventory | CAS No | No |
| hydrogen chloride | this product meets the criteria for classifica- tion in accordance with Regulation No 1272/ 2008/EC | | 3 |

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-rel- evant |
|---------|--|---|----------------------|
| 2.3 | Other hazards: of no significance | Other hazards | yes |
| 2.3 | | Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a con- centration of $\ge 0,1\%$. | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 3.2 | | Remarks: For full text of abbreviations: see SECTION 16 | yes |
| 11.1 | | - Acute toxicity estimate (ATE): change in the listing (table) | yes |
| 11.1 | | Acute toxicity estimate (ATE) of components: change in the listing (table) | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not con- tain a PBT-/vPvB-substance at a concentration of \ge 0,1%. | yes |
| 12.6 | Endocrine disrupting properties: Information on this property is not available. | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 16 | | Abbreviations and acronyms: change in the listing (table) | yes |



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Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------|---|
| 2000/39/EC | Commission Directive establishing a first list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC |
| Acute Tox. | Acute toxicity |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern ing the International Carriage of Dangerous Goods by Road) |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an ident fier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na tions |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | Indicative occupational exposure limit value |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| ppm | Parts per million |
| Press. Gas | Gas under pressure |
| 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 (Regula- tions concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| 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

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

| Code | Text |
|------|---|
| H280 | Contains gas under pressure; may explode if heated. |
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |

Disclaimer

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