

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 2 **Revision date: 01/08/2019**

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

1.1 Product identifiers

Hydrogen Chloride (ca. 1mol/L in Ethyl Ether) Product name:

H1061 Product code:

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids Category 1 Acute toxicity (Oral) Category 4 Acute toxicity (Inhalation) Category 4 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Respiratory sensitization Category 1 Reproductive toxicity Category 2

Specific target organ toxicity - Single exposure [Category 3] Respiratory tract irritation, Narcotic effects

Specific target organ toxicity - Repeated exposure [Category 1] Respiratory system, Teeth

2.2 Label elements

Pictograms or hazard symbols









Signal word

Hazard statements H224-Extremely flammable liquid and vapour.

H302+H332-Harmful if swallowed or if inhaled. H314-Causes severe skin burns and eye damage.

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H361fd-Suspected of damaging fertility. Suspected of damaging the unborn child.

H372-Causes damage to organs through prolonged or repeated exposure: Respiratory system Teeth

H335-May cause respiratory irritation. H336-May cause drowsiness or dizziness.

Precautionary statements P260-Do not breathe mist, vapours or spray.

P284-Wear respiratory protection.

P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor.

P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

P305+P351+P338+P310-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Hydrogen Chloride (ca. 1mol/L in

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2.3 Other hazards May form explosive peroxides.

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components: Hydrogen Chloride (ca. 1mol/L in Ethyl Ether)

Percent:

 CAS RN:
 7647-01-0

 EC-No:
 231-595-7

 Chemical Formula:
 HCl

Hazardous composition: Chemical name: Ethyl Ether Conc.: < 95%

CAS RN:60-29-7 EC No.: 200-467-2 Flam. Liq. 1, Acute Tox. 4, STOT SE 3

H224: Extremely flammable liquid and vapour. H302: Harmful if swallowed.H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.EUH019: May form explosive peroxides. EUH066:

Repeated exposure may cause skin dryness or cracking. Chemical name: Hydrogen Chloride Conc.: > 5%

CAS RN:7647-01-0 EC No.: 231-595-7

Skin Corr. 1B, STOT SE 3

H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

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: Dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media: Water (It may scatter and spread fire.)

5.2 Special hazards arising from the

substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Hydrogen chloride

5.3 Advice for firefighters Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if

safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc

6.2 Environmental precautions Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and

explosion-proof equipment.

6.4 Reference to other sections For disposal see section 13.

H1061 Hydrogen Chloride (ca. 1mol/L in

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Ethvl Ether)

SECTION 7: Handling and storage

7.1 Precautions for safe handling Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact! May develop pressure. Open carefully.

Confirm in advance if peroxides exist when operations involving heating such as distillation are carried

out.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in an explosion-poof refregerator. Store under inert gas.

Protect from moisture.

Store locked up. Store away from incompatible materials such as oxidizing agents.

Heat-sensitive, Hygroscopic

7.3 Specific end use(s)No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

(Ethyl Ether)

ACGIH TLV(TWA):400 ppm ACGIH TLV(STEL):500 ppm OSHA PEL(TWA):400 ppm

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Form: Clear

Colorless - Almost colorless

Odour: Characteristic
pH: No data available
Melting point/freezing point: No data available
(Ethyl Ether) -116°C

No data available (Ethyl Ether) 35°C

Flash point: -40°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available
Upper: No data available
Vapour pressure: No data available.
Vapour density: No data available

Relative density: 0.73

Solubility(ies):

Boiling point/range:

[Water] No data available [Other solvents] No data available

Partition coefficient: No data available (Ethyl Ether) 0.89

n-octanol/water:
Autoignition temperature:
No data available
Decomposition temperature:
No data available

Decomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available

9.2 Other safety information No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability May form explosive peroxides.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid Spark, Open flame, Static discharge, Air

Oxidizing agents, Bases, Metals 10.5 Incompatible materials

10.6 Hazardous decomposition products Hydrogen chloride

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: No data available

(Ethyl Ether)

orl-man LDLo:260 mg/kg orl-rat LD50:1215 mg/kg ihl-mus LC50:31000 ppm/30M skn-rbt LD50:>20 mL/kg

Skin corrosion/irritation: No data available

(Ethyl Ether)

skn-rbt 360 mg open MLD

Serious eye damage/irritation: No data available

> (Ethyl Ether) eye-hmn 100 ppm eye-rbt 100 mg MOD No data available

Respiratory or skin sensitization: Germ cell mutagenicity: No data available

(Ethyl Ether) oms-ham-fbr 1 pph

dnr-esc 35670 ug/well/16H dni-mus-emb 2850 mg/L

Carcinogenicity:

IARC = No data available NTP = No data available Reproductive toxicity: No data available No data available STOT-single exposure: STOT-repeated exposure: No data available Aspiration hazard: No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available Fish: No data available Crustacea: No data available Algae:

12.2 Persistence and degradability No data available

No data available 12.3 Bioaccumulative potential

12.4 Mobility in soil

No data available Log Pow: Soil adsorption (Koc): No data available Henry's Law (PaM 3/mol): No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

> Hydrogen Chloride (ca. 1mol/L in Ethyl Ether)

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

SECTION 14: Transport information

14.1 UN number 2924

14.2 UN proper shipping name

ADR/RID Flammable liquid, corrosive, n.o.s
IMDG/IMO Flammable liquid, corrosive, n.o.s
ICAO/IATA Flammable liquid, corrosive, n.o.s

14.3 Transport hazard class(es)

ADR/RID
3: Flammable liquid
Subsidiary risk:
8: Corrosive.

IMDG/IMO
3: Flammable liquid
Subsidiary risk:
8: Corrosive.

ICAO/IATA
3: Flammable liquid
Subsidiary risk:
8: Corrosive.

14.4 Packaging group

ADR/RID | IMDG/IMO | ICAO/IATA | I

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Water Hazard Classes (WGK):

Class 1 - Low hazard to waters

Water Hazard Classes (WGK): Class 1 - Substance of Very High Concern (SVHC) according to the Not listed

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 01/08/2019

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet