

**Ethyl chloride**

Print date 19.09.2022  
Revision date 19.09.2022  
Version 16.0 (en)  
replaces version of 19.09.2022 (15.0)

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

**1.1 Product identifier**

<b>Trade name/designation</b>	Ethyl chloride
<b>Art-Nr(n).</b>	1200, 1205, 70120
<b>Substance name</b>	chloroethane
<b>INDEX No.</b>	602-009-00-0
<b>EC No.</b>	200-830-5
<b>REACH No.</b>	01-2119487479-17
<b>CAS No.</b>	75-00-3

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

**Use of the substance/mixture**  
Intermediate.

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

**Supplier**  
GHC Gerling, Holz & Co. Handels GmbH  
Ruhrstraße 113  
D-22761 Hamburg  
Telephone +49 40 853 123 0  
E-mail hamburg@ghc.de

Department responsible for information:  
GHC Gerling, Holz & Co. Handels GmbH  
Telephone +49 40 853 123 0  
Website www.ghc.com

E-mail (competent person):  
msds@ghc.de

**1.4 Emergency telephone number**

EN: Poison Information Center Mainz +49 6131 19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
--	--------------------------

Flam. Gas 1A, H220  
Press. Gas (Liq.), H280  
Carc. 2, H351  
Repr. 1B, H360FD  
Aquatic Chronic 3, H412

**Hazard statements for physical hazards**

H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.

**Hazard statements for health hazards**

H351 Suspected of causing cancer.  
H360FD May damage fertility. May damage the unborn child.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**Additional information**

List substance (Regulation (EC) No. 1272/2008, Annex VI, part 3)

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**Hazard pictograms**

GHS02



GHS08



GHS04

**2.2 Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]****Signal word**

Danger

**Hazard statements**

H220 Extremely flammable gas.  
 H280 Contains gas under pressure; may explode if heated.  
 H351 Suspected of causing cancer.  
 H360FD May damage fertility. May damage the unborn child.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing and eye/face protection.  
 P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

**Supplemental hazard information**

EIGA0357 Asphyxiant in high concentrations.  
 EIGA0803 Restricted to professional users.

**2.3 Other hazards****Adverse physicochemical effects**

In use, may form flammable/explosive vapour-air mixture.

**Adverse human health effects and symptoms**

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.  
 Contact with liquid may cause cold burns/frostbite.

**Other adverse effects**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

<b>Substance name</b>	chloroethane
<b>INDEX No.</b>	602-009-00-0
<b>EC No.</b>	200-830-5
<b>REACH No.</b>	01-2119487479-17
<b>CAS No.</b>	75-00-3
<b>ATE</b>	ATE(inhalation gas): > 19000 ppm

**3.2 Mixtures**

not applicable

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**

Remove contaminated, saturated clothing immediately.  
Call a physician immediately.  
Alcohol increases toxic effects.  
First aider: Pay attention to self-protection!

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest.  
In case of respiratory standstill give artificial respiration by respiratory bag (Ambu bag) or respirator. Obtain medical assistance..

**Following skin contact**

In case of skin contact rinse with warm water.  
In case of frostbite, wash with plenty of water; do not remove clothing.  
In case of frostbite rinse with lukewarm (not hot) water for at least 15 minutes. Do not remove clothing frozen to the skin.  
Thaw with lukewarm water. Apply a sterile dressing. Obtain medical assistance.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical assistance.

**Following ingestion**

Ingestion is not considered a potential route of exposure.

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

**Symptoms**

The following symptoms may occur in case of strong exposition:  
Cardiopulmonary arrest.  
Depression of central nervous system  
Unconsciousness  
Vomiting  
Headache

**Effects**

Long-term inhaling of separation products may cause pulmonary oedema.  
Cardiac arrhythmias  
Diminished responsiveness  
Made worse through the drinking of alcohol beverages

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

**Notes for the doctor**

Treat symptomatically.  
To supervise the blood circulation.  
Do not apply drugs of the adrenaline ephedrine group.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**  
Extinguishing powder

**Unsuitable extinguishing media**  
Carbon dioxide (CO<sub>2</sub>)  
Water spray jet  
Full water jet

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

**Hazardous combustion products**

In case of fire formation of dangerous gases possible.  
Hydrogen chloride (HCl)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Chlorine (Cl<sub>2</sub>)  
Phosgene

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### 5.3 Advice for firefighters

**Special protective equipment for firefighters**

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

### Additional information

If possible, shut off gas valves and move containers to a safe location.  
Use water spray jet to protect personnel and to cool endangered containers.  
Exposure to fire may cause rupture / explosion of the containers.  
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Use personal protection equipment.  
Leave the danger area.  
Keep people away and stay on the upwind side.

**For emergency responders**

Personal protection by wearing close-fitting protective clothing and breathing apparatus.  
Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.  
Remove persons to safety.  
Eliminate all ignition sources if safe to do so.

### 6.2 Environmental precautions

If possible, stop flow of product.  
Do not allow to enter into soil/subsoil.  
Do not allow to enter into surface water or drains.

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

**For containment**

If necessary, secure leaky pressure receptacles using a salvage container.  
Prevent the liquid from spreading over a wide area (set up barriers, cover sewage systems).

**For cleaning up**

Leave to vapourize.  
Provide adequate ventilation.

### 6.4 Reference to other sections

Disposal: see section 13  
Personal protection equipment: see section 8

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures**

Use only in well-ventilated areas.  
Transfer and handle product only in closed systems.  
Usual measures for fire prevention.  
Containers' temperature should not be increased above 50 °C.  
The working pressure in the receptacle must not exceed the saturation vapour pressure of the pure product resulting at a temperature of 50 °C.  
Prevent cylinders from falling over.  
Take precautionary measures against static discharges. Ground barrels and installations. Use only antistatically equipped (spark-free) tools.  
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
Ensure valve protection device is correctly fitted.  
Ensure valve outlet cap nut or plug (where provided) is correctly fitted.  
Open valve slowly to avoid pressure shock.  
Do not allow backflow into the container.  
Entering of water into the container must be prevented.  
No water to valves, flanges and other fittings.

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Purging of pipes and valves with inert gases - to avoid: water, solvents.

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.  
 Wash hands before breaks and after work.  
 Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

All regulations and local requirements for the storage of containers have to be respected.  
 Keep container tightly closed and in a well-ventilated place.  
 Containers' temperature should not be increased above 50 °C.  
 Prevent cylinders from falling over.  
 Only use containers specifically approved for the substance/product.  
 Information on suitable materials for receptacles and valves see ISO 11114.

**Storage class**

2A Gases (except aerosol dispensers and lighters)

**Materials to avoid**

Do not store together with explosives.  
 Do not store together with flammable liquids.  
 Do not store together with flammable solids.  
 Do not store together with pyrophoric and self-heating substances.  
 Do not store together with oxidizing liquids or oxidizing solids.  
 Do not store together with toxic liquids or toxic solids.  
 Do not store together with infectious substances.  
 Do not store together with radioactive material.  
 Do not store together with food or feed.

**7.3 Specific end use(s)****Recommendation**

Use only as an intermediate under strictly controlled conditions.  
 An exposure scenario is not required.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
75-00-3	200-830-5	Chloroethane	100 [ml/m <sup>3</sup> (ppm)] 268 [mg/m <sup>3</sup> ] (IE)

**DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
75-00-3	chloroethane	5.01 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 525
75-00-3	chloroethane	37.7 mg/m <sup>3</sup>	long-term inhalative (systemic)	Assessment factor 75

**DNEL Consumer**

CAS No.	Substance name	DNEL value	DNEL type	Remark
75-00-3	chloroethane	1.79 mg/kg bw/day	Long-term – oral, systemic effects	Assessment factor 1050
75-00-3	chloroethane	1.79 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 1050
75-00-3	chloroethane	6.7 mg/m <sup>3</sup>	long-term inhalative (systemic)	Assessment factor 150

**PNEC**

CAS No.	Substance name	PNEC Value	PNEC type	Remark
75-00-3	chloroethane	0.006 mg/L	aquatic, marine water	Assessment factor 10000
75-00-3	chloroethane	0.031 mg/kg dw	soil	

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CAS No.	Substance name	PNEC Value	PNEC type	Remark
75-00-3	chloroethane	0.031 mg/kg dw	sediment, marine water	
75-00-3	chloroethane	0.058 mg/L	aquatic, freshwater	Assessment factor 1000
75-00-3	chloroethane	0.307 mg/kg dw	sediment, freshwater	
75-00-3	chloroethane	0.58 mg/L	aquatic, intermittent release	Assessment factor 100
75-00-3	chloroethane	140 mg/L	sewage treatment plant (STP)	Assessment factor 1

**8.2 Exposure controls****Appropriate engineering controls****Technical measures to prevent exposure**

Transfer and handle only in enclosed systems.  
 Use only as an intermediate under strictly controlled conditions.

**Personal protection equipment****Eye/face protection**

Protective goggles according to EN 166, in case of increased risk add protective face shield.

**Hand protection**

Safety gloves according to EN 374:  
 Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: IIR,  $\geq 0,5$  mm,  $> 10$  min  
 Safety gloves according to EN 388:  
 Chromate-free leather

**Body protection:**

Safety shoes with steel toecap.  
 Body covering work clothing or chemical resistant suit at increased risk.

**Respiratory protection**

Keep self contained breathing apparatus readily available for emergency use.  
 Respiratory protection necessary at:  
 high concentrations  
 Respiratory protection complying with EN 137.  
 Suitable respiratory protection apparatus:  
 Short-term: filter apparatus, filter AX, otherwise environment-independent breathing apparatus.  
 In case of rescue and maintenance activities in storage containers use environment-independent breathing apparatus because of risk of suffocation due to displacement of oxygen

**Thermal hazards**

Use cold-resistant protective equipment.

**Environmental exposure controls****Remark**

Prevent release to the environment.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Physical state**

Gaseous / liquefied under pressure.

**Colour**

colourless

**Odour**

pungent, ethereal

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point			not applicable

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	Value	Method	Source, Remark
Boiling point or initial boiling point and boiling range	13.1 °C pressure 1013 hPa		
flammability			inflammable
Lower and upper explosion limit	Upper explosion limit 15 Vol-%		
Lower and upper explosion limit	Lower explosion limit 3.6 Vol-%		
Flash point			not applicable
Auto-ignition temperature	510 °C	DIN 51794	
Decomposition temperature			not determined
pH			not applicable
Viscosity			not applicable
Solubility(ies)	Water solubility 5.74 g/L (20°C)		Reacts with water
Partition coefficient n-octanol/water (log value)	1.43		
Vapour pressure	1342 hPa (20°C)		
Density and/or relative density			not applicable
Relative vapour density	2.31		air = 1
particle characteristics			not applicable

**9.2 Other information****Information with regard to physical hazard classes****Gases under pressure****Safety characteristics**

	Value	Method, Result	Source, Remark
Critical temperature	187.2 °C		

**Other information**

Vapours are heavier than air.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Formation of explosive gas mixtures in contact with air.

**10.2 Chemical stability**

The substance is chemically stable under recommended conditions of storage, use and temperature.

**10.3 Possibility of hazardous reactions**

Must not be mixed with air or oxygen.

Danger of fire and explosion with oxidants, alkali metals and earth alkali metals.

**10.4 Conditions to avoid**

Heat sources / heat - risk of bursting.

Ignition sources, open flames, glowing metal surfaces, etc.

**10.5 Incompatible materials**

Alkali metals

Alkaline earth metal

Aluminium / Aluminium alloys.

Zinc

Oxidising agent

Water / moisture.

Light

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**10.6 Hazardous decomposition products**

Phosgene  
 Hydrochloric gas

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity			Study technically not feasible.
Acute dermal toxicity			Study technically not feasible.
Acute inhalation toxicity	CAS No. 75-00-3 chloroethane Acute inhalation toxicity (gas) LC50: > 19000 ppm Species Rat Exposure time 4 h	OECD 403	

**Assessment/classification**

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

**Skin corrosion/irritation****Other information**

Study technically not feasible.

**Serious eye damage/irritation****Other information**

Study technically not feasible.

**Sensitisation to the respiratory tract****Other information**

No data available

**Skin sensitisation****Other information**

Study technically not feasible.

**Repeated dose toxicity (subacute, subchronic, chronic)**

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Subchronic inhalation toxicity	NOAEC 19000 ppm Species Mouse	OECD 413			

**Additional information**

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

**Germ cell mutagenicity**

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity	Gene mutation	OECD 476		
In vivo mutagenicity/genotoxicity	Inhalation Species Mouse	OECD 474		



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**Assessment/classification**

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

**Carcinogenicity****Animal data**

	Value	Method	Result / Evaluation	Remark
Carcinogenicity	inhalative 15000 ppm Species rat (male/female) Exposure duration 2 a	OECD 451		

**Assessment/classification**

Suspected of causing cancer.

**Reproductive toxicity****Animal data**

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity	inhalative NOAEC 7000 ppm Species Rat	OECD 443		

**Assessment/classification**

May damage fertility. May damage the unborn child.

**STOT-single exposure****STOT SE 1 and 2****Assessment/classification**

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

**STOT-repeated exposure****Assessment/classification**

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

**Aspiration hazard****Assessment/classification**

Study technically not feasible.

**11.2 Information on other hazards**

No data available

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 322.74 mg/L Species freshwater fish Test duration 96 h	QSAR	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 58 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	EU Method C.2	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 118 mg/L Species Scenedesmus subspicatus Test duration 72 h	EU Method C.3	

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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	EC10 > 140 mg/L Species <i>Pseudomonas putida</i> Test duration 17 h	DIN 38412 / part 8	cell reproduction

**12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation	Degradation rate 0 % Test duration 28 d	OECD 301 D / EU C.4-E	

**Assessment/classification**

Not readily biodegradable (according to OECD criteria)

**12.3 Bioaccumulative potential****Assessment/classification**

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

**12.4 Mobility in soil**

	Value	Distribution	Transport type	Method	Remark
Half-life time in fresh water	17.41 L/kg			KOC value	

**12.5 Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**12.6 Endocrine disrupting properties**

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties			See section 2.3

**12.7 Other adverse effects**

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
160504 *	gases in pressure containers (including halons) containing hazardous substances

**Appropriate disposal / Product**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.  
 Prevent release to the environment. No disposal via the sewage.

**Appropriate disposal / Package**

Transportable pressure equipment (empty, residual pressure): Return to supplier / manufacturer.

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	1037	1037	1037
<b>14.2 UN proper shipping name</b>	ETHYL CHLORIDE	ETHYL CHLORIDE	Ethyl chloride
<b>14.3 Transport hazard class(es)</b>	2	2.1	2.1
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No

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**14.6 Special precautions for user**

The protective measures listed in Sections 6, 7 and 8 of the Safety Data Sheet have to be considered.

**14.7 Maritime transport in bulk according to IMO instruments**

No carriage in bulk.

**Land transport (ADR/RID)**

UN number or ID number	1037
UN proper shipping name	ETHYL CHLORIDE
Transport hazard class(es)	2
Hazard label(s)	2.1
Classification code	2F
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	0
Special provisions	662
Tunnel restriction code	B/D

**Sea transport (IMDG)**

UN number or ID number	1037
UN proper shipping name	ETHYL CHLORIDE
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	0
Marine pollutant	No
EmS	F-D, S-U

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

UN number or ID number	1037
UN proper shipping name	Ethyl chloride
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
 Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**Other regulations (EU)****To follow:**

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII No 28 - 30.  
 Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII No 40.  
 Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.

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National and local regulations concerning chemicals shall be observed.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**  
VOC-value 99.8 %

**15.2 Chemical Safety Assessment**

**National regulations**

For this substance a chemical safety assessment has been carried out.

**SECTION 16: Other information**

**Key literature references and sources for data**

Information from our suppliers and data from the "GESTIS Substances Database" and the "Registered Substances" database of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

**Additional information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

**Relevant H- and EUH-phrases (Number and full text)**

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H412	Harmful to aquatic life with long lasting effects.