# 2-CHLOROETHANOL AR MSDS

CAS No: 107-07-3 MSDS



# **MATERIAL SAFETY DATA SHEET (MSDS)**

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

1.1. Product identifier

Product form : Substance

:

EC index no : 603-028-00-7
EC no : 203-459-7
CAS No : 107-07-3
Product code : 00074

Chemical structure :

CI

Synonyms : Ethylene chlorohydrin

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

### 1.2.2. Uses advised against

No additional information available

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

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## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H226

Category 3

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Acute toxicity (oral),

H300

Category 1
Acute toxicity (dermal),

H310

Category 1

. . . . . .

Acute toxicity (inhal.),

H330

Category 2

Full text of classification categories and H statements : see section 16

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### Classification according to Directive 67/548/EEC or 1999/45/EC

T+; R26/27/28

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS06

GHS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour

H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray Precautionary statements (CLP)

P264 - Wash ... thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - [In case of inadequate ventilation] wear respiratory protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or

doctor/physician

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

#### **Substance** 3.1.

Name : 2-CHLOROETHANOL AR

CAS No : 107-07-3 EC no : 203-459-7 EC index no : 603-028-00-7

Full text of R- and H-phrases: see section 16

#### 3.2. **Mixture**

Not applicable

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### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Rinse eyes with water as a

precaution. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/injuries after inhalation : Fatal if inhaled.

Symptoms/injuries after skin contact : Fatal in contact with skin. Symptoms/injuries after ingestion : Fatal if swallowed.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Flammable liquid and vapour.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

# **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### 6.4. Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash ... thoroughly after handling. Do not eat, drink or smoke when using this

product.

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

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.

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#### 7.3. Specific end use(s)

No additional information available

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

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid

Molecular mass : 80.51 g/mol
Colour : Clear Colorless.

Odour : sweet pleasant.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -89 °C

Freezing point : No data available

Boiling point : 129 °C

Flash point : 55 °C

Auto-ignition temperature : 425 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 7 hPa at 20 °C

Relative vapour density at 20 °C : 2.78

Relative density : No data available

Density : 1.2 g/cm<sup>3</sup>

Solubility : Water: Easily soluble in cold water

Log Pow : No data available

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Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.05 - 0.16 vol %

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Flammable liquid and vapour.

## 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks.

### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

No additional information available

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Fatal if swallowed. Dermal: Fatal in contact with skin. Inhalation: Fatal if

inhaled.

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

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Potential adverse human health effects

and symptoms

: Fatal if swallowed. Fatal in contact with skin.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to ...

Ecology - waste materials

: Hazardous waste due to toxicity.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

# 14.1. UN number

 UN-No. (ADR)
 : 1135

 UN-No. (IMDG)
 : 1135

 UN-No.(IATA)
 : 1135

 UN-No.(ADN)
 : 1135

 UN-No. (RID)
 : 1135

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHYLENE CHLOROHYDRIN
Proper Shipping Name (IMDG) : ETHYLENE CHLOROHYDRIN
Proper Shipping Name (IATA) : ETHYLENE CHLOROHYDRIN
Proper Shipping Name (ADN) : ETHYLENE CHLOROHYDRIN
Proper Shipping Name (RID) : ETHYLENE CHLOROHYDRIN

Transport document description (ADR) : UN 1135 ETHYLENE CHLOROHYDRIN, 6.1 (3), I, (C/D) : UN 1135 ETHYLENE CHLOROHYDRIN, 6.1 (3), I (60°C o.c.)

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Transport document description (IATA) : UN 1135 ETHYLENE CHLOROHYDRIN, 6.1 : UN 1135 ETHYLENE CHLOROHYDRIN, 6.1 (3), I Transport document description (RID) : UN 1135 ETHYLENE CHLOROHYDRIN, 6.1 (3), I

### 14.3. Transport hazard class(es)

### **ADR**

Transport hazard class(es) (ADR) : 6.1 (3)
Danger labels (ADR) : 6.1, 3



### **IMDG**

Transport hazard class(es) (IMDG) : 6.1 (3)
Danger labels (IMDG) : 6.1, 3



### IATA

Transport hazard class(es) (IATA) : 6.1 (3)

### ADN

Transport hazard class(es) (ADN) : 6.1 (3)
Danger labels (ADN) : 6.1, 3



### **RID**

Transport hazard class(es) (RID) : 6.1 (3)
Danger labels (RID) : 6.1, 3



# 14.4. Packing group

Packing group (ADR) : I
Packing group (IMDG) : I

Packing group (IATA) : Not applicable

Packing group (ADN) : I
Packing group (RID) : I

# 14.5. Environmental hazards

Dangerous for the environment : No

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Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

### - Overland transport

: TF1 Classification code (ADR) Special provision (ADR) : 354 : 0 Limited quantities (ADR) Excepted quantities (ADR) : E0 : P602 Packing instructions (ADR) Mixed packing provisions (ADR) : MP8, MP17 : T20

Portable tank and bulk container

instructions (ADR)

Portable tank and bulk container special : TP2, TP37

provisions (ADR)

Tank code (ADR) : L10CH

Tank special provisions (ADR) : TU14, TU15, TE19, TE21

Vehicle for tank carriage : FL Transport category (ADR) : 1

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV1, CV13, CV28

Special provisions for carriage - Operation : S2, S9, S14

(ADR)

Hazard identification number (Kemler No.)

Orange plates

663 1135

Tunnel restriction code (ADR) C/D EAC code : •2W APP code : A(fl)

### - Transport by sea

Special provision (IMDG) : 354 Limited quantities (IMDG) : 0 Excepted quantities (IMDG) : E0 Packing instructions (IMDG) : P602 Tank instructions (IMDG) : T20

Tank special provisions (IMDG) : TP2, TP13, TP37

EmS-No. (Fire) : F-E : S-D EmS-No. (Spillage) Stowage category (IMDG) : D Stowage and handling (IMDG) : SW2 Flash point (IMDG) : 60°C o.c. MFAG-No : 131

# - Air transport

PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity : Forbidden

(IATA)

PCA packing instructions (IATA) : Forbidden PCA max net quantity (IATA) : Forbidden CAO packing instructions (IATA) : Forbidden CAO max net quantity (IATA) : Forbidden

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ERG code (IATA) : 6F

- Inland waterway transport

Classification code (ADN) : TF1 Special provisions (ADN) : 354.802 Limited quantities (ADN) : 0 Excepted quantities (ADN) : E0 Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, TOX, A : VE01, VE02 Ventilation (ADN)

Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : TF1 Special provision (RID) : 354 : 0 Limited quantities (RID) Excepted quantities (RID) : F0 Packing instructions (RID) : P602 Mixed packing provisions (RID) : MP8, MP17 : T20

Portable tank and bulk container

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP2. TP37

: L10CH Tank codes for RID tanks (RID)

Special provisions for RID tanks (RID) : TU14, TU15, TU38, TE21, TE22

Transport category (RID)

Special provisions for carriage - Loading

and unloading (RID)

: CW13, CW28, CW31

Hazard identification number (RID) : 663

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

2-CHLOROETHANOL AR is not on the REACH Candidate List

2-CHLOROETHANOL AR is not on the REACH Annex XIV List

# 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according

to VwVwS, Annex 2; WGK No 229)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

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#### Denmark

Class for fire hazard : Class II-1 Store unit : 5 liter

Classification remarks : R10 <H226;H300+H310+H330>; Emergency management guidelines for the

storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

### 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

# Full text of R-, H- and EUH-phrases:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour
H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
T+	Very toxic

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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