

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.0 Revision Date 31.03.2016

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : (±)-Epichlorohydrin

Product Number :
Brand : NEAR INTERNATIONAL TRADE CO.,LIMITED
Index-No. :
REACH No. : 01-2119457436-33-XXXX
CAS-No. : 106-89-8

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

Identified uses : Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : NEAR INTERNATIONAL TRADE CO.,LIMITED
FLAT 1506,15/F,LUCKY CENTER,NO.165-171 WAN
CHAI ROAD,WAN CHAI,HONG KONG

Telephone :+86-05467277736
Fax

1.4 Emergency telephone number

Emergency Phone # : +86-05466851637

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 1B), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word : Danger

Hazard statement(s)

H226

H301 + H311 + H331

Flammable liquid and vapour.

Toxic if swallowed, in contact with skin or if inhaled

| | |
|--------------------------------|--|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H350 | May cause cancer. |
| Precautionary statement(s) | Obtain special instructions before use. |
| P201 | Avoid breathing vapours. |
| P261 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P280 | |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| 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. |
| Supplemental Hazard Statements | none |

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Rapidly absorbed through skin.

SECTION 3: Composition/information on ingredients

3.1 Substances

| | | |
|---------------------|---|--|
| Synonyms | : | 1-Chloro-2,3-epoxypropane (±)-2-(Chloromethyl)oxirane |
| Formula | : | C ₃ H ₅ ClO |
| Molecular weight | : | 92.52 g/mol |
| CAS-No. | : | 106-89-8 |
| EC-No. | : | 203-439-8 |
| Index-No. | : | 603-026-00-6 |
| Registration number | : | 01-2119457436-33-XXXX |

Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component | Classification | Concentration |
|-----------------------|--|---------------|
| Epichlorhydrin | | |
| CAS-No. | 106-89-8 | <= 100 % |
| EC-No. | 203-439-8 | |
| Index-No. | 603-026-00-6 | |
| Registration number | 01-2119457436-33-XXXX | |
| | Flam. Liq. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1; Carc. 1B; H226, H301, H331, H311, H314, H317, H350 | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas.

Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

| | |
|---|---|
| b) Odour | No data available |
| c) Odour Threshold | No data available |
| d) pH | No data available |
| e) Melting point/freezing point | Melting point/range: -57 °C |
| f) Initial boiling point and boiling range | 115 - 117 °C |
| g) Flash point | 32 °C - closed cup |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | Upper explosion limit: 21 %(V) Lower explosion limit: 3.8 %(V) |
| k) Vapour pressure | 13.8 mmHg at 21.1 °C |
| l) Vapour density | 3.19 - (Air = 1.0) |
| m) Relative density | 1.183 g/mL at 25 °C |
| n) Water solubility | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

Relative vapour density 3.19 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

acids, Bases, Ammonia, Amines, Sodium/sodium oxides, Zinc, Magnesium, Aluminum, and its alloys, Halides

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 90 mg/kg(Epichlorhydrin)
LC50 Inhalation - Rat - 8 h - 250 ppm(Epichlorhydrin)
Dermal: No data available(Epichlorhydrin)

Skin corrosion/irritation

Skin - Rabbit(Epichlorhydrin)
Result: Open irritation test - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit(Epichlorhydrin)
Result: Severe eye irritation

Respiratory or skin sensitisation

May cause sensitisation by skin contact.(Epichlorhydrin)

Germ cell mutagenicity

May alter genetic material.(Epichlorhydrin)

Carcinogenicity

This product is or contains a component that has been reported to be proba EPA classification.(Epichlorhydrin)
Possible human carcinogen(Epichlorhydrin)
(Epichlorhydrin)

IARC: 2A - Group 2A: Probably carcinogenic to humans (Epichlorhydrin)

Reproductive toxicity

No data available(Epichlorhydrin)

Specific target organ toxicity - single exposure

No data available(Epichlorhydrin)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Epichlorhydrin)

Additional Information

RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough(Epichlorhydrin)

SECTION 12: Ecological information

12.1 Toxicity

| | |
|---|--|
| Toxicity to fish | LC50 - Pimephales promelas (fathead minnow) - 10.6 mg/l - 96 h(Epichlorhydrin) |
| Toxicity to daphnia and other aquatic invertebrates | LC50 - Daphnia magna (Water flea) - 21 mg/l - 48 h(Epichlorhydrin) |

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available (Epichlorohydrin)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Harmful to aquatic life.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information
14.1 UN number

ADR/RID: 2023

IMDG: 2023

IATA: 2023

14.2 UN proper shipping name

ADR/RID: EPICHLOROHYDRIN

IMDG: EPICHLOROHYDRIN

IATA: Epichlorohydrin

14.3 Transport hazard class(es)

ADR/RID: 6.1 (3)

IMDG: 6.1 (3)

IATA: 6.1 (3)

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: yes

IATA: no

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information
Full text of H-Statements referred to under sections 2 and 3.

| | |
|--------------------|--|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H301 + H311 + H331 | Toxic if swallowed, in contact with skin or if inhaled |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |

H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H350 May cause cancer.

Further information:

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Shandong Jinling International Trade Company Limited and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.