1,2-Bis(2-chloroethoxy)ethane 112-26-5 MSDS

Section 1 - Chemical Product

MSDS Name:1 2-Bis(2-chloroethoxy)ethane 99+% Material Safety Data Sheet

Synonym:Triethylene glycol dichloride; Triglycol dichloride

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content
112-26-5	1,2-Bis(2-chloroethoxy)ethane	>99.0

Hazard Symbols: T
Risk Phrases: 21 25

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful in contact with skin. Toxic if swallowed.The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract.

The toxicological properties of this substance have not been fully investigated. May cause central nervous system effects.

Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic:

No information found.

Section 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:

Section 5 - FIRE FIGHTING MEASURES

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:
Water or foam may cause frothing. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition.
Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:
Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.
Do not ingest or inhale.
Storage:
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:
Use adequate ventilation to keep airborne concentrations low.
Exposure Limits CAS# 112-26-5: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:
Wear appropriate protective gloves to prevent skin exposure.
Clothing:
Wear appropriate protective clothing to prevent skin exposure.
Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: clear slightly yellow
Odor: None reported.
pH: Not available.
Vapor Pressure: 0.03 mm Hg @20C
Viscosity: Not available.
Boiling Point: 240 deg C
Freezing/Melting Point: -31.5 deg C
Autoignition Temperature: Not available.
Flash Point: 121 deg C (249.80 deg F)
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature:
Solubility in water: insoluble
Specific Gravity/Density: 1.1970g/cm3
Molecular Formula: C6H12Cl2O2
Molecular Weight: 187.07

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials.
Incompatibilities with Other Materials:
Strong oxidizing agents.
Hazardous Decomposition Products:
Chlorine, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 112-26-5: KH4900000 LD50/LC50:
CAS# 112-26-5: Draize test, rabbit, eye: 100 mg Severe; Oral, mouse: LD50 = 2240 mg/kg; Oral, rat: LD50 = 250 mg/kg; Oral, rat: LD50 = >6000 mg/kg; Skin, rabbit: LD50 = 1410 uL/kg.
Oral, rat:LD50 = 237 mg/kg (males) Carcinogenicity:
1,2-Bis(2-chloroethoxy)ethane - Not listed by ACGIH, IARC, or NTP.
Other:
See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - TRANSPORT INFORMATION

IATA
Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.*
Hazard Class: 6.1
UN Number: 2810
Packing Group: III
IMO
Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.
Hazard Class: 6.1
UN Number: 2810
Packing Group: III
RID/ADR
Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.
Hazard Class: 6.1
UN Number: 2810
Packing group: III

Section 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: T
Risk Phrases:
R 21 Harmful in contact with skin.
R 25 Toxic if swallowed.
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
CAS# 112-26-5: 2
Canada
CAS# 112-26-5 is listed on Canada's NDSL List.
CAS# 112-26-5 is not listed on Canada's Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 112-26-5 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A