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3-Chloro-1,2-Propanediol CAS No 96-24-2

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identif	iers
	Product name	

tifiers 3-Chloro-1,2-Propanediol

CAS-No. : 96-24-2

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

Identified uses

: Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company :	Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA
Telephone :	: +91 11 49404040
Email :	: <u>care@cdhfinechemical.com</u>

1.4 Emergency telephone number Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 4), H312 Serious eye damage (Category 4), H318 Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 1B), H360

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

Hazard statement(s)

H300	Fatal if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
Precautionary statement(s)	Obtain special instructions before use.
P201	Avoid breathing vapours.
P261	Wash hands thoroughly after handling.
P264	Wear protective gloves/ eye protection/ face protection.
P280	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P305 + P351 + P338	contact lenses, if present and easy to do. Continue rinsing.
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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: -Chlorohydrin -Monochlorohydrin -Glycerol chlorohydrin 3-MCPD
Formula Molecular weight CAS-No. EC-No.	: C _{3H7CIO2} : 110.54 g/mol : 96-24-2 : 202-492-4
	. 202-492-4

Hazardous ingredier Component	ts according to Regulation	on (EC) No 1272/2008 Classification	Concentration
·		Classification	Concontration
3-Chloropropane-1,2	-diol		
CAS-No.	96-24-2	Acute Tox. 2; Acute Tox. 3;	<= 100 %
EC-No.	202-492-4	Acute Tox. 4; Eye Dam. 1;	
		Carc. 2; Repr. 1B; H300,	
		H331, H312, H318, H351,	
		H360	

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

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

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 No data available

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. Evacuate personnel to safe 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.
- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 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. 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.

hygroscopic Store under inert gas. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: clear, viscous liquid Colour: light yellow b) Odour No data available No data available c) Odour Threshold d) pН No data available Melting point/freezing e) No data available point 213 °C - lit. f) Initial boiling point and boiling range Flash point 113 °C - closed cup g) h) Evaporation rate No data available Flammability (solid, gas) No data available i) Upper/lower No data available i) flammability or explosive limits 0.04 mmHg at 25 °C k) Vapour pressure Vapour density No data available I) m) Relative density 1.322 g/cm3 at 25 °C Water solubility No data available n) Partition coefficient: nlog Pow: -0.53 O) octanol/water Auto-ignition No data available p) temperature Decomposition No data available q) temperature

- r) Viscosity
- No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available
- 9.2 Other safety information No data available

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** Avoid moisture.
- **10.5 Incompatible materials** Strong oxidizing agents
- 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 - 26 mg/kg(3-Chloropropane-1,2-diol) Remarks: Behavioral:Somnolence (general depressed activity). Nutritional and Gross Metabolic:Weight loss or decreased weight gain. LD50 Dermal - Rabbit - 1,056 mg/kg(3-Chloropropane-1,2-diol)

Skin corrosion/irritation

No data available(3-Chloropropane-1,2-diol)

Serious eye damage/eye irritation

Eyes - Rabbit(3-Chloropropane-1,2-diol) Result: Severe eye irritation

Respiratory or skin sensitisation No data available(3-Chloropropane-1,2-diol)

Germ cell mutagenicity

No data available(3-Chloropropane-1,2-diol)

Carcinogenicity

No data available(3-Chloropropane-1,2-diol)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (3-Chloropropane-1,2-diol)

Reproductive toxicity

No data available(3-Chloropropane-1,2-diol)

Specific target organ toxicity - single exposure No data available(3-Chloropropane-1,2-diol)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available(3-Chloropropane-1,2-diol)

Additional Information

RTECS: TY4025000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(3-Chloropropane-1,2-diol)

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

Biodegradability Result: - Not readily biodegradable.

Biochemical Oxygen Demand (BOD)	980 mg/g(3-Chloropropane-1,2-diol)
Chemical Oxygen Demand (COD)	10 mg/g(3-Chloropropane-1,2-diol)
Ratio BOD/ThBOD	68 %(3-Chloropropane-1,2-diol)

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

No data available(3-Chloropropane-1,2-diol)

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

Additional ecological Avoid release to the environment. information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	ADR/RID: 2		IMDG: 2689	IATA: 2689
14.2	2 UN proper shipping name ADR/RID: GLYCEROL alpha-MONOCHLOROHYDRIN IMDG: GLYCEROL-alpha-MONOCHLOROHYDRIN IATA: Glycerol alpha-monochlorohydrin			
14.3	Transport h ADR/RID: 6	n azard class(es) 6.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environmer ADR/RID: r	ntal hazards	IMDG Marine pollutant: no	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.

H300	Fatal if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.

Further information

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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.