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

Catalogue Number	CS-T-60234
Product Name	Pentaerythritol Dibromide
CAS No.	3296-90-0
Category	Building Blocks
Synonyms	2,2-Bis(bromomethyl)-1,3-propanediol
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Serious eye damage/eye irritation (Category 2)
Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement
H340	Not available
H350	Not available
H302	Harmful if swallowed.

H319	Causes serious eye irritation.
H341	Not available
H351	Not available
H373	Not available
H413	Not available
H303	Not available
H361	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P318	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P260	Not available
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P273	Not available
P301+P317	Not available
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen
P319	Get medical help if you feel unwell.
P330	Not available
P337+P317	If eye irritation persists: Get medical help.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Pentaerythritol Dibromide
CAS Number : 3296-90-0
Molecular Formula : C5H10Br2O2
Molecular Weight : 261.94

Parent Chemical : -
Synonyms : 2,2-Bis(bromomethyl)-1,3-propanediol
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
General advice: Seek medical attention if symptoms persist or if you feel unwell. Show this SDS to the physician.
Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.
Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation develops or persists.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
Not available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically. No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment (e.g., water spray, dry chemical, foam, carbon dioxide).
Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture
May decompose under fire conditions to release hazardous fumes/gases. Specific decomposition products: Not available.

5.3 Advice for firefighters
Wear self-contained breathing apparatus (SCBA) and full protective gear. Cool containers with water spray to prevent rupture. Avoid inhalation of combustion products.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing dust/vapors. Use appropriate personal protective equipment (see Section 8). Ensure adequate ventilation.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Prevent entry into drains, surface waters, or soil.

6.3 Methods and material for containment and cleaning up
Contain spill. Collect spilled material using methods that minimize dust generation (e.g., dampen if appropriate). Place in a suitable, closed container for disposal. Clean contaminated area.

6.4 Reference to other sections
See Section 8 for exposure controls/personal protection and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid breathing dust. Use with adequate ventilation. Keep container tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated place. Keep in original container, tightly closed. Protect from moisture.
Incompatible materials: Not available.

7.3 Specific end use(s)
Building block / laboratory and industrial use. No further information available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits: Not available.
Biological limit values: Not available.

8.2 Exposure controls
Engineering controls: Provide adequate general and/or local exhaust ventilation to control airborne levels.
Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material selection dependent on use conditions). Protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate or dust is generated, use a suitable particulate respirator in accordance with applicable standards.
Hygiene measures: Wash hands after handling. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash before reuse.
Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available

Test	Result
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

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, open flames, and conditions that generate dust. Other conditions: Not available.

10.5 Incompatible materials
Not available.

10.6 Hazardous decomposition products
Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: /LABORATORY ANIMALS: Acute Exposure/ /Ten Sprague-Dawley rats, both male and female aged 5-8 weeks old (bw 136-153 g males, 136-146 g females) were given a single dose (2000 mg/kg bw) of 2,2-bis(bromomethyl)-1,3-propanediol in Arachis oil by oral gavage/ ... Two females died 30 min after dosing. One male died one hr after dosing ... Common signs of systemic toxicity noted were coma, labored respiration, hunched posture, and lethargy with additional signs of ataxia, ptosis, and decreased respiratory rate. Isolated incidents of loss of righting reflex were noted in two animals. Surviving animals appeared normal one or two days after dosing. The acute median lethal dose (LD50) was found to be greater than 2000 mg/kg bw. /LABORATORY ANIMALS: Acute Exposure/ Male and female CD-1 rats (35 days old) were given 2,2-bis(bromomethyl)-1,3-propanediol by oral gavage at doses of 1247, 1484, 1765, 2101, 2500 mg/kg/ ... Initial signs of reaction to treatment consisted of a rapid progression from reduced motor activity, ataxia, prone posture and prostration to a loss of consciousness between 15 and 30 min after administration. Coma and death, between one and six hr after dosing, followed loss of consciousness in a total of 22 animals. The remaining animals generally regained consciousness one to two hours after administration of the lowest dosage, but recovery was less rapid as the dosage increased. All surviving animals were asymptomatic from Day 3 and all showed normal bodyweight gains over the 14-day observation period. From the observed mortality data, the acute median lethal dosage (LD50) and 95% CI of Dinol, calculated by probit analysis were found to be 1880 (1691-2120) mg/kg.
- Skin corrosion/irritation: Causes respiratory tract irritation. Causes skin irritation. Causes eye irritation. /SIGNS AND SYMPTOMS/ May be harmful if inhaled. Causes respiratory tract irritation. Harmful if swallowed. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation.
- Serious eye damage/eye irritation: Causes respiratory tract irritation. Causes skin irritation. Causes eye irritation. /SIGNS AND SYMPTOMS/ May be harmful if inhaled. Causes respiratory tract irritation. Harmful if swallowed. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: No epidemiological data relevant to the carcinogenicity of 2,2-bis(bromomethyl)propane-1,3-diol were available. There is sufficient evidence in experimental animals for the carcinogenicity of 2,2-bis(bromomethyl)propane-1,3-diol. Overall evaluation 2,2-Bis(bromomethyl)propane-1,3-diol is possibly carcinogenic to humans (Group 2B). 2,2-bis-(Bromomethyl)-1,3-propanediol: reasonably anticipated to be a human carcinogen.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure
- No data available.

Symptoms related to the physical, chemical and toxicological characteristics
- /SIGNS AND SYMPTOMS/ May be harmful if inhaled. Causes respiratory tract irritation. Harmful if swallowed. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation.

SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Not available.

12.5 Results of PBT and vPvB assessment
Not available.

12.6 Endocrine disrupting properties
Not available.

12.7 Other adverse effects
Not available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose of contents/container in accordance with local/regional/national/international regulations. Do not discharge to drains or the environment.
Waste classification: Not available.
Contaminated packaging: Dispose of as unused product or according to local requirements.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number
Not available.

14.2 UN proper shipping name
Not available.

14.3 Transport hazard class(es)

Not available.

14.4 Packing group
Not available.

14.5 Environmental hazards
Not available.

14.6 Special precautions for user
Not available.

14.7 Maritime transport in bulk according to IMO instruments
Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Not available.

15.2 Chemical safety assessment
Not available.

SECTION 16: Other information

SECTION 16: Other information

Product identifier: Pentaerythritol Dibromide
Synonyms: 2,2-Bis(bromomethyl)-1,3-propanediol
CAS No.: 3296-90-0
Catalog No.: CS-T-60234
Supplier: Clearsynth Labs Ltd., Mumbai, India
Emergency phone: +91-22-245045900

Revision date: 2026-03-17

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