

Safety Data Sheet

1,3-Propanediol

1 Identification of the substance

1.1 Product identifier

Identification of the substance 1,3-Propanediol

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

Identified uses basic Intermediates
Restriction on use not for food or drug use, for laboratory use only

1.3 Details of the supplier of the safety data sheet

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2 Hazards identification

2.1 Classification of the substance or mixture

Physical Hazards

not classified

Health Hazards

Skin irritation (Category 2), H315

Environmental Hazards

not classified

2.2 Label elements

Symbol

GHS07 exclamation mark

Pictogram



Signal Word

Warning Warning

Hazard Statement

H315 Causes skin irritation.

Precautionary Statement

P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 IF ON SKIN:
P352 Wash with plenty of soap and water.
P332 If skin irritation occurs:
P313 Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P364 And wash it before reuse.

3 Composition/information on ingredients

Substance related information

Substance name 1,3-Propanediol
Cas No. [504-63-2]
Formula C₃H₈O₂

4 First aid measures

4.1 Description of first aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion Wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Hints for Physician: Symptoms See Section 11 for additional information on health hazards

4.3 Indication of any immediate medical attention and special treatment needed

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing Media

Suitable foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

5.2 Special hazards arising from the substance or mixture

Wear a self-contained breathing apparatus and chemical protective clothing.

Hazards During Fire-Fighting toxic fumes

5.3 Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

6.1 Personal Precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

6.2 Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

6.3 Methods and material for containment and cleaning up not available

6.4 Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage

7.1 Precautions for safe handling

Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature store at 10°C - 25°C

Storage Requirements

Keep away from incompatible substances. Store in a cool, dry, well-ventilated area away from incompatible substances.

7.3 Specific end use(s)

8 Exposure controls/personal protection

8.1 Exposure limit values Does not contain any substances with occupational exposure limits.

8.2 Exposure controls Industrial Hygiene Mechanical exhaust required. Safety shower and eye shower.

8.3 Personal Protective Equipment

Respiratory Protection Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties

9.1 Information on basic Physical and chemical color properties

Color *Colour* Less

Form *Clear Liquid*

Molar Mass *76.09 g/mol*

10 Stability and reactivity

10.1 Reactivity No Data Available

10.2 Chemical stability No Data Available

10.3 Possibility of hazardous reaction No Data Available

10.4 Conditions to Avoid (SDS) incompatible materials

10.5 Incompatible materials strong oxidizers

10.6 Hazardous decomposition products carbon dioxide (CO₂), carbon monoxide

11 Toxicological information

11.1 Information on toxicological effects Other Relevant Toxicity Information

We are not aware of any toxicology data.

12 Ecological Information

12.1 Toxizität

Acute toxicity versus Fishing	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available
Acute toxicity in aquatic plants	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available
Acute toxicity versus Daphnia and others aquatic invertebrates	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available

12.2 Persistence and degradability Remarks : no data available

12.3 Bioaccumulative potential Remarks : no data available

12.4 Mobility in soil : no data available

12.5 Results of PBT and vPvB assessment : no data available

13 Disposal considerations

Advice on Disposal and Packaging *Advice on Disposal*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging Not Available

14 Transport information

	Road Transport(ADR/GGVS)	Air Transport(IATA)
14.1 UN number	Not Dangerous Goods	Not Dangerous Goods
14.2 UN proper shipping name	Not Dangerous Goods	Not Dangerous Goods
14.3 Transport hazard class(es)	Not Dangerous Goods	Not Dangerous Goods
14.4 Packing group	Not Dangerous Goods	Not Dangerous Goods
14.5 Environmental hazard class (es)	Not Dangerous Goods	Not Dangerous Goods
14.6 Special precautions for user	Not applicable	Not applicable
14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code	Not applicable	Not applicable

15 Other regulations

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

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulations

Toxins

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

None of the ingredients are listed or exempt.

Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List

None of the ingredients are listed or exempt.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16 Additional information

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