

1,3-Propanediol

Page: 1/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

SECTION 1. IDENTIFICATION

Product Name/Identifier	1,3-Propanediol
Product Code	FSSD00499
Recommended Use	For professional users only, Cosmetics, Solvent, Fragrances, Personal care, Washing and cleaning products (including solvent based products), Polymer, Monomer
Restrictions on Use	Refer to Section 16 (Other Information) - Do not use product for anything outside of the above specified uses.
Supplier Site	Formulator Sample Shop
Address	135 Joshua Court Lincolnton, NC 28092, USA
Telephone No. (24hrs)	1-704-276-7099
Emergency Telephone #	1-704-276-7099 (Mon-Fri: 8:00AM – 5:00PM EST)

SECTION 2. HAZARD(S) IDENTIFICATION

Classification:

GHS / CLP

Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

USA

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

Europe

Basis for Classification: -According to present data no classification and labeling is required according to Reg. (EC) No 1272/2008.
-This product is not classified as hazardous to health or environment according to the CLP regulation.

Labeling Elements:

Pictograph: No hazard symbol expected

Hazard statements/Signal Word: Not applicable

Precautionary statements: P233: Keep container tightly closed
P281: Use personal protective equipment as required
P402: Store in a dry place
P404: Store in a closed container

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1,3-Propanediol

Page: 2/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.

By hydropscopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 0; Normal Material

Flammability: Rating 0, Will Not Burn

Reactivity: Rating 0, Stable

Other Hazard Information: None

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name: Propanediol

Chemical Family: Substance

Description: Substance

Substance

Propanediol

CAS Numbers

504-63-2

EC Numbers

207-997-3

Formula: Not applicable

SECTION 4. FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: No hazards which require special first aid measures.

Skin contact: No hazards which require special first aid measures.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician if eye irritation develops or persists.

Ingestion: No hazards which require special first aid measures.

Protection of first-aiders: No applicable data available.

SECTION 5. FIRE-FIGHTING MEASURES

Fire and explosion hazards: Not considered to be a fire and explosion hazard

Extinguishing media:

Suitable: Water, dry chemicals, foam and carbon dioxide

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1,3-Propanediol

Page: 3/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

Not suitable:	None known
Fire fighting:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area
Specific hazards:	Exposure to decomposition products may be a hazard to health.
Protection for fire-fighters:	Full protective clothing, including boots, gloves, goggles and self-contained breathing equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE:	Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.
Personal precautions:	Avoid contact with eyes. Personal Protective Equipment: -Protective goggles
Environmental precautions:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system
Methods for cleaning up:	
Recovery:	Contain spillage, soak up free liquid for recycling or disposal with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulation (See Section 13).
Disposal:	For disposal of residues refer to Sections 8 & 13.

SECTION 7. HANDLING AND STORAGE

Handling	
Technical measures:	Labeling: Keep out of the reach of children.
Safe handling advice:	No special precautions are needed in handling this material.
Storage	
Technical measures:	Keep container closed to prevent contamination.
Recommended Storage Conditions:	Store in a cool, dry place. Store bulk quantities under nitrogen blanket. Keep away from heat, sparks and flames.
Incompatible products:	Avoid contact with strong acids and oxidizing agents. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

1,3-Propanediol

Page: 4/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements: Ensure adequate ventilation, especially in confined areas.

Control parameters

Exposure Guidelines/Limit Values: This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

Personal Protective Equipment:

Respiratory protection: A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the OSHA respiratory protection information located at 29CFR 1910.134.

Eye protection: Safety glasses with side shields.

Skin and Body Protection: Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Measures related to the Environment: No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Suspended matter
Hazen Color: 10 Maximum
Odor: Slight

Specific Gravity: 1.04 – 1.065

Water (Karl Fischer): < 1,000 ppm

ID (FTIR): Conforms to standard
ID (GC): Conforms to standard

1,3-Propanediol: > 99.9%

Lead: < 1 ppm
Nickel: < 1 ppm
Cobalt: < 1 ppm

Vapor pressure: 0.0267 hPa at 25°C (77°F)

Vapor density: Not applicable
Boiling Point: 214.22°C (417.60°F)
Freezing Point: Not available
Melting point: -27.65°C (-17.77°F)

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1,3-Propanediol

Page: 5/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

Flash point:	129°C
Oxidizing properties:	Non oxidizing material according to EC criteria.
Solubility:	
In water:	Soluble
In organic solvents:	Not determined
Log Pow:	-1.04
Auto-ignition temperature:	400°C
Decomposition temperature:	> 129°C
Viscosity, kinematic:	46 mm ² /s at 20°C (68°F)
Viscosity, dynamic:	49 mPa.s at 20°C (68°F)

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage conditions.
Hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Temperatures above 129°C (> 264°F)
Materials to avoid:	No dangerous reaction known with common products.
Hazardous decomposition products:	None known

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion:	Not Determined
Dermal:	Not Determined
Ocular:	Not Determined
Inhalation:	Not Determined
Acute toxicity data:	Not Determined
Sensitization:	Not Determined
Repeated dose toxicity:	Not Determined
Subacute to chronic toxicity:	Not Determined
Carcinogenicity:	<p>The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).</p> <p>None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.</p>

1,3-Propanediol

Page: 6/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Effects on the aquatic environment: Not Determined

Biodegradability:

Persistence: Not Determined

Bioaccumulation:

Octanol / water partition coefficient: Not Determined

Mobility:

Precipitation:

Expected behavior of the product: Not Determined

Other Adverse Effects:

Not Determined

SECTION 13. DISPOSAL CONSIDERATIONS

Residues from product

Prohibition: Do not allow the product to be released into the Environment.

Destruction/Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: None

UN Shipping Name: None

Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG
Air: Material is not restrictive for air transport and is not regulated by ICAO/IATA

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

1,3-Propanediol

Page: 7/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION

Labeling:

EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

Further regulations

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually)

Korea regulations: Industrial safety and hygiene regulation: No
Hazardous material control regulation: No
Fire prevention regulation: No

Other regulations:

EINECS inventory status:	Propanediol:	207-997-3
TSCA inventory status:	Exempt	
AICS inventory status:	504-63-2	
Canadian (CEPA DSL) inventory status:	Listed as 1,3-Propanediol (DSL)	
Japan (MITI list):	Propanediol	
Korea:	Propanediol	
China inventory status:	Propanediol	
Philippines inventory status:	Listed as 1,3-Propanediol	

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

SECTION 16. OTHER INFORMATION

Prohibited uses: Do not use in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from the supplier under a written contract that expressly acknowledges the contemplated use.

Last Revision Date: N/A

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Safety Data Sheet

1,3-Propanediol

Page: 8/8

Date: 12 / 28 / 2020

Version: 1

Cancels and replaces version:

MSDS summary of changes

No deletion, addition or revision to date

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.