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MATERIAL SAFETY DATA SHEET (MSDS)

1,3-PROPANEDIOL (FOR SYNTHESIS)

1 - Chemical Product

MSDS Name: 1,3-Propanediol

Synonym: 2-Deoxyglycerol; 1,3-Dihydroxypropane; 2-(hydroxymethyl) ethanol; Beta-propylene glycol; 1,3-propylene glycol; Trimethylene glycol

Cas no: 504-63-2

Product Coad: SS0118202500

Molecular Formula: CH₂(CH₂OH)₂

Molecular Weight: 76.0548

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
504-63-2	1,3-Propanediol	98	207-997-3

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. May cause central nervous system depression.

Inhalation: May cause respiratory tract irritation. May cause effects similar to those described for ingestion.

Chronic: No information found.

4 - FIRST AID MEASURES

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

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

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

Notes to Physician:

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. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Combustible liquid.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Cool containers with flooding quantities of water until well after fire is out.

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Use only in a well-ventilated area.

Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Store in a cool, dry place.

Store in a tightly closed container. Flammables-area.

MATERIAL SAFETY DATA SHEET (MSDS)**1,3-PROPANEDIOL (FOR SYNTHESIS)****8 - EXPOSURE CONTROLS, PERSONAL PROTECTION****Engineering Controls:**

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits CAS# 504-63-2: 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 a chemical apron. Wear appropriate protective clothing to minimize contact with skin.

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.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: clear, colorless

Odor: odorless

pH: Not available.

Vapor Pressure: 0.1 mbar @ 20C

Viscosity: 39.2mPas @ 20C

Boiling Point: 210 deg C

Freezing/Melting Point: -27 deg C

Autoignition Temperature: 400 deg C (752.00 deg F)

Flash Point: 79 deg C (174.20 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Soluble.

Specific Gravity/Density: 1.05

10 - STABILITY AND REACTIVITY

Chemical Stability:Stable under normal temperatures and pressures.

Conditions to Avoid:Incompatible materials, ignition sources, strong oxidants, oxidizers.

Incompatibilities with Other Materials:Strong oxidizing agents, acid chlorides, acid anhydrides, chloroformates, reducing agents.

Hazardous Decomposition Products:Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 504-63-2: TY2010000 LD50/LC50:

CAS# 504-63-2: Oral, mouse: LD50 = 4500 mg/kg.

Carcinogenicity:

1,3-Propanediol - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION**13 - DISPOSAL CONSIDERATIONS**

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

14 - TRANSPORT INFORMATION

Not regulated

MATERIAL SAFETY DATA SHEET (MSDS)**1,3-PROPANEDIOL (FOR SYNTHESIS)****15 - REGULATORY INFORMATION**

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
CAS# 504-63-2: 0
Canada
CAS# 504-63-2 is listed on Canada's DSL List.
CAS# 504-63-2 is not listed on Canada's Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 504-63-2 is listed on the TSCA inventory.

16: Other Information

References: Laboratory Reagent

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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