

Dipropylene Glycol, Fragrance Grade

INCI: Dipropylene Glycol

1. Chemical Product and Company Identification

Product Name:	Dipropylene Glycol
Chemical Name:	1,1-Oxydi-2-Propanol
CASRN:	25265-71-8
Chemical Family:	Glycols
Synonyms:	Methyl-2(Methyl-2) Oxybispropanol, DPG, 2,2-Dihydroxyisopropyl Ether, 1,1-Oxydi-2-Propanol
Emergency Numbers:	Chemtrec 800-424-9300

2. Composition/Information on Ingredients

Component & CAS Number	Weight
Dipropylene Glycol 26265-71-8	99.5

3. Hazards Identification

EMERGENCY OVERVIEW:

This material is NOT HAZARDOUS by OSHA Hazard Communication definition

Hazards: Slight eye irritant. Slight skin irritant.

Product Description

Appearance: Slightly viscous liquid

Odor: Essentially odorless

Potential health effects

Routes of exposure: Skin, eye.

Signs and Symptoms of Acute Exposure: Slight health hazard

Immediate effects:

Skin: May produce skin irritation. Not expected to be a skin absorption hazard.

Eye: Exposure to liquid may cause eye irritation. Symptoms of exposure may include:
Eye irritation or burning sensation.

Inhalation: Not expected to be an inhalation hazard.

Ingestion: No significant signs or symptoms indicative of any health hazard are expected to occur as a result of ingestion.

Chronic Health Effects: No adverse chronic health effects are expected from anticipated conditions of normal use.

Medical Conditions which may be Aggravated by Exposure:

No additional information is available on whether overexposure to this material would aggravate other existing special medical conditions.

4. First Aid Measures

General: After adequate first aid, no further treatment is required unless symptoms reappear.

Skin: Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and Water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first.

4. First Aid Measures continued

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If pain or irritation persists, promptly obtain medical attention.
Inhalation:	Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Ingestion:	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

5. Fire Fighting Measures

NFPA: Health: 0 Flammability: 1 Reactivity: 0

Flammable properties Flash point (test method): ~138° C (280° F) (Open Cup)

Flammable limits in air, % by volume: Upper: No Information Lower: No Information

Autoignition temperature: No Data Available

Products of combustion: Carbon monoxide and other toxic vapors.

Extinguishing Media: **Suitable: Small Fire:** Use dry chemicals, CO₂, water spray or alcohol-resistant foam.

Large Fire: Use water spray, water fog or alcohol-resistant foam.

Unsuitable: Do not use solid water stream.

Fire Fighting Environmental Concerns: Thoroughly decontaminate bunker gear and other fire-fighting equipment before re-use.

Fire Fighting Instructions: **Protective Equipment/Clothing:** Wear positive pressure Self-contained breathing apparatus (SCBA). Structural firefighters Protective clothing will only provide limited protection.

INSTRUCTIONS: Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading Fire/increasing risk of burns/injuries. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water. Although water soluble, may not be practical to extinguish fire by water dilution. Notify authorities immediately if liquid enters sewers/public waters.

6. Accidental Release Measures

Release Response: Vapors may ignite. Equip responders with proper protection. Evacuate/limit access. Extinguish all ignition sources. Stop release; prevent flow to sewers/public waters. Notify fire and environmental authorities. Impound/recover large land spill; soak up small spill with inert solids. Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

7. Handling and Storage

Handling: For industrial use only. When normal handling requires heating, do not heat higher than 28°C/50°F below flash point temperature unless in air-free closed system sealed off from the atmosphere. Handle empty containers with care – residue can burn if heated. Drain any necessary residue to sewer carefully to prevent upset to sewage treatment. Empty containers should be thoroughly rinsed with copious amounts of clean water. The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded.

7. Handling and Storage continued

Storage: Store in tightly closed/properly vented containers. Store away from heat/moisture/strong oxidizing agents. Material can attack some forms of plastics.

8. Exposure Controls/Personal Protection

Engineering Controls: No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.

Protective Equipment: A safety shower and eyebath should be readily available.

Skin Protection: Wear impervious clothing and gloves to prevent contact. Nitrile or butyl rubber is recommended. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Eye/face Protection: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor.

Respiratory Protection: No special respiratory protection is recommended under anticipated conditions of normal use with adequate ventilation.

Recommended Work

Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

EXPOSURE GUIDELINES

Comments: No exposure guidelines have been established by ACGIH or OSHA.

9. Physical and Chemical Properties

Appearance: Clear, colorless, mobile, syrupy liquid
Odor: Essentially odorless
Solubility in Water: Insoluble in water; soluble (45%) in alcohol
Specific Gravity: !1.03 (Water = 1.0 at 4°C (39.2°F))
Boiling Point: 228° C (442°F), @ 760 mm Hg
Freezing Point: -50 C (-58 F)
pH: Not applicable
Vapor Density: ~4.6, (Air-2.0 at 15-20°C/59-68°F)
Vapor Pressure (mm Hg): <0.1 mm Hg, @ 21°C/70°F
Viscosity: ~ 107 mPa.s, @ 20°C/68°F
Molecular Weight 134.18 g/mol
Other Physical & Chemical Properties: Pour point: -4.4°C (40°F). Volatile Characteristics: Slight: 0.1 to 1.0%

10. Stability and Reactivity

Stability: Normally stable when properly handled and stored.
Hazardous Decomposition Products: Thermal decomposition products may include oxides of carbon and butadiene
Hazardous Polymerization: Will not occur.
Incompatible Materials: Strong oxidizing agents.
Conditions to Avoid: High temperatures, oxidizing conditions.
Reactions with Air and Water: Does not react with air or water.

11. Toxicological Information

Product Summary:	No known chronic or adverse effects have been associated with repeated exposure to this material. No additional toxicology information is available for this material. (See Component Toxicity Information).	
Component Summary: <i>Dipropylene Glycol</i>		
Oral LD50:	Rat:	14,800 mg/kg
	Rabbit:	> 17,800 mg/kg
Repeated Dose Toxicity:	No known chronic or adverse effects have been associated with repeated exposure to this material	

12. Ecological Information

Ecotoxicity: This material is expected to be non-hazardous to aquatic species.

Toxicity to Fish:/Amphibians:

<u>Test Type</u>	<u>Species</u>	<u>Value/Units</u>
LC50 / 24 hours	Goldfish	5,000 mg/l
LC50 / 24 hours	Orange-red killfish	1,000 mg/l

Environmental Fate: Biotic Degradability: BOD 5% Abiotic Degradability: Phoyolysis Half-Life 13 hrs. BOD (Modified MITI Test,II)= 3% ThOD (28 day)

Bioaccumulation: BCF <5

Biodegradation: This material is expected to be partially or slowly biodegradable.

13. Disposal Considerations

Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations.

14. Transport Information

This product is not regulated.

15. Regulatory Information

Regulatory Advisory: No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

Regulatory Status: All components of this product are listed or are exempt from issuing on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA – Section 313 Emissions Reporting:

The material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

State Reporting:

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

15. Regulatory Information continued

State Reporting:

Massachusetts Substances List (MSL) – Extraordinarily hazardous substances must be identified when present in materials at levels greater than state specified criterion. The criterion is $\geq 0.0002\%$. Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers present in this material, at levels specified in Section 2 – Composition do not require reporting under the statute.

Hazardous Substances listed by the State of Pennsylvania must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers in this material at a level which could require reporting under the statute are:

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16. Other Information

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