



SILVER FERN CHEMICAL, INC.

Safety Data Sheet

Dipropylene Glycol Fragrance

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name : DIPROPYLENE GLYCOL FRAGRANCE
CAS Number: : 25265-71-8
Chemical Name : 1,1-Oxydi-2-Propanol
Synonyms : Dipropylene Glycol, DPG, 2,2-Dihydroxyisopropyl Ether, Methyl-2(Methyl-2) Oxybispropanol

Identified uses : Monomer; Intermediate; Functional Fluids

Prohibited uses : Theater fogs; Artificial smoke

Company Address

Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North, Suite C
Seattle, WA 98109, USA
Phone: 1-866-282-3384

Business Contact

Customer Service: 1-866-282-3384
info@silverfernchemical.com

Emergency phone number

24 Hour Emergency Contact

Infotrac 1-800-535-5053 (USA & Canada)

Outside USA & Canada 1-352-323-3500

2. HAZARDS IDENTIFICATION

GHS-Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

GHS-Labeling

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Other hazards

No additional information available.

3. Composition/information on ingredients

Substances

Ingredients

Chemical Name	CAS-No. EC-No.	Weight %	Component Type
Dipropylene Glycol	25265-71-8	>= 99.5 %	A

Key:



SILVER FERN
CHEMICAL INC

Safety Data Sheet

(A) Substance

4. FIRST AID MEASURES

- General advice : May cause irritation of the eyes, skin and mucous membranes. Always observe self-protection methods. Move out of dangerous area. Remove contaminated shoes and clothing. Show this material safety data sheet to the doctor in attendance.
- If inhaled : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Avoid inhalation of hot vapors or extremely high concentrations of aerosols.
- Remove to fresh air.
In the case of inhalation of aerosol/mist consult a physician if necessary.
- In case of skin contact : Wash skin thoroughly with mild soap and water.
- In case of eye contact : Flush eyes with water thoroughly and continuously for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

Notes to physician

- Symptoms : High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).
- Hazards : This product is of low acute toxicity. May cause irritation of the eyes, skin and mucous membranes. Hot vapors may cause lung damage.
- Treatment : Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : SMALL FIRE: Use dry chemicals, CO₂, water spray or alcohol-



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CHEMICAL INC

Safety Data Sheet

	resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use solid water stream.
Specific hazards during fire fighting	: Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point. 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 sewer/public waters.
Special protective equipment for fire-fighters	: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Use personal protective equipment. Clean-up to be performed only by trained and properly equipped personnel.
Environmental precautions	: Try to prevent the material from entering drains or water courses.
Methods for cleaning up	: 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.



SILVER FERN
CHEMICAL INC

Safety Data Sheet

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Handle empty containers with care - residue can burn if heated. 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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container tightly closed when not in use. Protect from moisture. Store away from heat. Material can attack some forms of plastics. Do not store together with oxidizing and self-igniting products.

Advice on common storage : Carbon/Mild steel with suitable internal coating, or stainless steel

Other data : No decomposition if stored and applied as directed.

8. Exposure controls/personal protection

Control parameters

Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

Exposure controls

Engineering measures

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

Personal protective equipment

Hand protection : Not normally considered a skin hazard. Use chemical resistant gloves appropriate to conditions of use. Wear chemical resistant gloves such as: Nitrile rubber



SILVER FERN
CHEMICAL INC

Safety Data Sheet

Latex

- Eye and face protection : Safety glasses with side-shields
Use splash goggles when eye contact due to splashing or spraying liquid is possible.
- Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of anticipated use. Where use can result in skin contact, practice good personal hygiene.
- Hygiene measures : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices.
Wash hands before eating, drinking, smoking, or using toilet facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Physical state : liquid at 20 °C
Color : Clear, colorless.
Odor : odorless

Safety data

- Flash point : 128 - 132 °C
at 988.80 hPa (741.66 mm Hg)
- Lower explosion limit : No Data Available.
- Upper explosion limit : No Data Available.
- Flammability (solid, gas) : Not applicable
- Oxidizing properties : The substance or mixture is not classified as oxidizing.
- Autoignition temperature : 332 °C
at 989.60 - 1001.80 hPa
- Molecular weight : 134.17 g/mol



SILVER FERN
CHEMICAL INC

Safety Data Sheet

pH	:	7.4 (as aqueous solution)
Melting point/range	:	< -20 °C
Boiling point/boiling range	:	227 °C at 983.60 hPa
Vapor pressure	:	0.013 hPa at 25 °C
Density	:	1.02 g/cm ³ at 20 °C
Water solubility	:	Miscible in water.
Partition coefficient: n-octanol/water	:	log Pow: -0.462 at 21.7 °C
Viscosity, kinematic	:	118 mm ² /s at 20 °C 32 mm ² /s at 40 °C
Relative vapor density	:	~4.6 (Air = 1.0 at 15 - 20°C/59 - 68°F)
Surface tension	:	71.4 mN/m 1.01g/l at 22 °C

10. STABILITY AND REACTIVITY

Conditions to avoid	:	High temperatures, oxidizing conditions.
Materials to avoid	:	Strong acids Isocyanates. Strong oxidizing agents.
Hazardous decomposition products	:	Carbon Monoxide and other toxic vapors.
Thermal decomposition	:	Thermal decomposition may produce carbon monoxide and other toxic vapors.
Hazardous reactions	:	Not expected to occur. This material is stable when properly handled and stored.

11. TOXICOLOGICAL INFORMATION



SILVER FERN
CHEMICAL INC

Safety Data Sheet

- Product Summary** : The below given information is based on the assessment of the product including impurities.
- Acute toxicity**
- Acute oral toxicity** : Based on acute toxicity values, not classified.
Ingestion of high doses may cause discomfort and irritation of the gastrointestinal tract and CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).
- : LD50 Oral: > 5,000 mg/kg
Species: Rat
- Acute inhalation toxicity** : Based on acute toxicity values, not classified.
- : LC50 (Inhl): > 2.34 mg/l
Exposure time: 4 HOURS
Species: Rat
- Acute dermal toxicity** : Based on acute toxicity values, not classified.
- : LD50 Dermal: > 5,000 mg/kg
Species: Rabbit
- Skin corrosion/irritation** : Based on skin irritation values, not classified.
May cause slight transient skin irritation.
- Serious eye damage/eye irritation** : Based on eye irritation values, not classified.
- Respiratory or skin sensitization** : Respiratory sensitization
Not classified
No study available.
- : Skin sensitization
Not classified
No adverse effect observed.
- Chronic toxicity**
- Carcinogenicity** : Not classified
No adverse effect observed.



SILVER FERN
CHEMICAL INC

Safety Data Sheet

Germ cell mutagenicity : Not classified
No adverse effect observed.

Reproductive toxicity

Effects on fertility /
Effects on or via lactation : Not classified
Male rats and female mice ingesting multi-gram quantities of dipropylene glycol for 90-days exhibited changes in testis and estrous cycle that appeared secondary to clinical- and systemic toxicity, debilitation and death. Data available on related homologues suggest it is unlikely to affect fertility or reproduction at lower exposures that do not cause morbidity or mortality.

Effects on Development : Not classified
No adverse effect observed.

Target Organ Systemic Toxicant - Single exposure : Based on single exposure toxicity values, not classified.

Target Organ Systemic Toxicant - Repeated exposure : Based on repeated exposure toxicity values, not classified.

Aspiration hazard : Based on physico-chemical values or lack of human evidence, not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish :
Low acute toxicity to fish
Data for close chemical analog.

Toxicity to daphnia and other aquatic invertebrates :
Low acute toxicity to aquatic invertebrates.

Toxicity to algae :
Low toxicity to algae.

Toxicity to bacteria :
Low toxicity to sewage microbes.



SILVER FERN
CHEMICAL INC

Safety Data Sheet

Toxicity to fish (Chronic toxicity) : QSAR (Quantitative structure-activity relationship) based calculation predicts low chronic toxicity.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : QSAR (Quantitative structure-activity relationship) based calculation predicts low chronic toxicity.

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.
: Bioconcentration factor (BCF): 0.3 - 4.6 (QSAR calculated value)

Surface tension : 71.4 mN/m
1.01g/l
at 22 °C

Distribution among environmental compartments : Stability in soil
no data available
: Stability in water
no data available

Additional advice Environmental fate and pathways : No additional information available.

Biodegradability : Rapidly degradable.
: 64.5 - 93.4 %
(After 28 days in a ready biodegradability test)
(freshwater)
: Partially biodegradable.
: 17.3 - 23.6 %
(62 - 64 day ready biodegradability test)
(seawater)

Further information on ecology

Ecotoxicology Assessment

Acute aquatic toxicity : Based on acute aquatic toxicity values, not classified.

Chronic aquatic toxicity : Not classified, based on readily biodegradability and low acute toxicity.

Results of PBT assessment



SILVER FERN
CHEMICAL INC

Safety Data Sheet

Not applicable.

Additional ecological information

: No additional information available.

13. DISPOSAL CONSIDERATIONS

Product

: Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal.
Landfill solids at permitted sites.
Burn concentrated liquids, diluting with clean, low viscosity fuel.
Dilute aqueous waste may biodegrade.

14. TRANSPORT INFORMATION

Refer to section 15 for specific national regulation.

Proper shipping name

DIPROPYLENE GLYCOL, not regulated

15. REGULATORY INFORMATION

Other international regulations

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant



SILVER FERN
CHEMICAL INC

Safety Data Sheet

16. OTHER INFORMATION

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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