



MATERIAL SAFETY DATA SHEET(MSDS)- DIPROPYLENE GLYCOL

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

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

COMPANY IDENTIFICATIO	ON		
Supplier:		Pon Pure Chemicals Group	
		CHENNAI, TAMILNADU, INDIA	
24 Hour Health Emergency		(91) 8939878447	
		(91) 9444038694	
Transportation Emergence	y Phone	(91) 89 <mark>39</mark> 768680	
Company Name	Place	EMERGENCY TELEPHONE NUMBER	
Pon Pure Chemicals Group	India	Day Emergency - 044-26161803-26161809	

2. HAZARDS IDENTIFICATION

GHS-Classification

Not a dangerous substance according to GHS.

GHS-Labeling

Not a dangerous substance according to GHS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Substance

Hazardous ingredients

Chemical Name	CAS-No.	Concentration
Dipropylene Glycol	25265-71-8	>= 99.5 %

Page **1** of **10**





4. FIRST AID MEASURES

If Inhaled

Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Avoid inhalation of Hot vapours of extremely high concentrations of aerosols. Remove to fresh air. Incase of inhalation of aerosol/mist consult a physician if necessary

In case of skin Contact

Wash skin thoroughly with mild soap and water.

Flush eyes with water thoroughly and continuously for 15 minutes.

In case of eye contact

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 Treatment

This product is of low acute toxicity.

May cause irritation of the eyes, skin and mucous membranes. Hot vapors may cause lung damage. 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- 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	:	Heat from fire can generate flammable vapor.When
fighting					mixed with air and exposed to ignition source.

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	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.

Wear positive pressure self-contained breathing apparatus(SCBA).Structural firefighters protective clothing will only provide limited protection.

Special protective equipment for : fire-fighters

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

Methods for cleaning up

personnel.Try to prevent the material from entering drains or water courses.

: 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	
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 again and explosion	st fire : Normal measures for preventive fire protection.
Storage	
Requirements for storage and containers	areas : 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
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

Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

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	Wear chemical resistant gloves such as: Butyl
	rubber or Nitrile.
Eye 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
	d <mark>u</mark> ring 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 (1,013.25 hPa)
Color	:	Clear, colorless.
Odor	:	Little or no odor.
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.
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Autoignition temperature	:	327 - 337 °C at 989.60 - 1001.80 hPa
Molecular Weight	:	134.17 g/mol
рН	:	Not applicable.
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	1.02 g/cm3 at 20 °C (Water = 1.0 at 4°C (39.2°F))
Water solubility		at 20 °C Miscible
Partition coefficient: n-octanol/water	:	log Pow: -0.462 at 21.7 °C
Viscosity, kinematic	:	118 mm2/s at 20 °C , 32 mm2/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
Other Information	:	Pour point: -4.4°C (-40°F).

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 toxi	с
	vapors.	

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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.
Acute toxicity	MATION
Acute toxicity	
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Dipropylene Glycol	: LD50 Oral: > 5,000 mg/kg
	Species: rat
	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).
Acute inhalation toxicit	y : LC50 (Inhl): > 2.34 mg/l, Exposure time: 4 HOURS
	Species: rat
	Vapors may cause irritation of the eyes, nose and throat as
	well as CNS depression (fatigue, dizziness, loss of
	concentration, with collapse, coma and death possible in
	cases of severe overexposure). High vapor concentrations
	may be irritating to the upper respiratory tract.
Acute dermal toxicity	: LD50 Dermal: > 5,010 mg/kgSpecies: rabbit
	Repeated exposure may cause cracking and drying due to the
	extraction of oils.
Skin corrosion/irritation	
Skin irritation	: Not a skin irritant.
Serious eye damage/eye	e irritation
Eye irritation	: No eye irritation
Respiratory or skin sens	itization
Sensitization	: Not sensitizing
Germ cell mutagenicity	
<u> </u>	: Negative for genotoxicity using both in vitro and in vivo





Carcinogenicity			
Remarks	: Did not show carcinogenic effects in animal experiments.		
Reproductive toxicity			
Effects on fertility			
Conclusion	: Animal testing did not show any effects on fertility.		
Effects on Developmen	t		
Conclusion	: Results from animal studies demonstrate that this		
	material is not a teratogen, nor is it toxic to the		
	developing embyro or fetus at non-maternally toxic doses.		
Target Organ Systemic	: Toxicant - Repeated exposure		
Dipropylene Glycol	: Effects noted in repeated-exposure studies in rodents reveal		
	target organ effects specific to rodents and are not relevant to		
	human health or occurred at very high dose levels of low		
	relevance to human exposures.		
12. ECOLOGICAL INFORMA	TION		
Ecotoxicity effects			
Dipropylene Glycol	: LC50: > 1,000 mg/l		
	Exposure time: 96 HOUR		
	Species: Oryzias latipes (Orange-red killifish)		
	Read-across to structural analogue, Tripropylene		
	Glycol		
Toxicity to daphnia	: EC50: > 100 mg/l		
Toxicity to bacteria	Exposure time: 72 HOUR		
	Species: Desmodesmus subspicatus (green		
	algae)		
Toxicity to fish (Chronic to	oxicity) : EC10: > 1,000 mg/l		
	Exposure time: 18 HOUR		

MSDS – Di Propylene Glycol

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Toxicity to daphnia and other aquatic	QSAR (Quantitative structure-activity relationship) based calculation predicts low chronic toxicity.		
invertebrates (Chronic toxicity)	. No Data Available.		
Elimination information (persistence and degradability) Bioaccumulation Surface tension Distribution among environmental compartments Additional advice Environmental fate and	 Bioconcentration factor (BCF): < 5 Not expected to bioaccumulate in aquatic organisms. 71.4 mN/m 1.01g/l at 22 °C Environmental releases of propylene glycol will tend to partition to water and soil, with little potential for evaporation. No additional information available. 		
pathways Biodegradability			
Additional ecological information			
Dipropylene Glycol	: This material is expected to be non-hazardous to aquatic species. Readily biodegradable in aerobic conditions. This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).		
13. DISPOSAL CONSIDERATIONS			
Product : Fire residu Do not co	: Fire residues and contaminated fire extinguishing water must		
or used	or used container. Comply with federal, state, or local		
regulations for disposal.			
14.TRANSPORT INFORMATION			
IMDG			
UN number : 5027			





Marine pollutant	: no
Class	: 0
Description of the goods	: DIPROPYLENE GLYCOL,

15. REGULATORY INFORMATION

Notification status

All ingredients are on the following inventories or are exempted from listing

Country	Notification	
Australia	AICS	
Canada	DSL	
China	IECS	
European Union	EINECS	
Japan	ENCS/ISHL	
Korea	ECL	
Philippines	PICCS	
United States of America	TSCA	rnem

16. OTHER INFORMATION Disclaimer

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