

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	Ethylene glycol monopropyl ether/ EGPE
Chemical Name	2-(Propyloxy)ethanol
CAS Number	2807-30-9
EC Number	220-548-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Used as solvents in formulations for cleaning fluids, paints, coatings, and inks Useful in printing and other specialized coatings applications
Uses identified against	Not for use other than those specified

1.3 Details of the supplier of the safety data sheet:

Manufacturer	Prasol Chemicals Pvt. Ltd., Prasol House, Plot No.A-17/2/3, T.T.C. Indl. Area, Khairne M.I.D.C., Navi Mumbai - 400 710. Maharashtra, India.
Telephone	+91-22-27782555
Telefax	+91-22-27782430
e-mail address	sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone	+91-22- 27782555
Language	English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Flammable liquid	Category 3	H226	Flammable liquid and vapour
Acute Toxicity, dermal	Category 4	H312	Harmful in contact with skin
Eye irritation	Category 2	H319	Causes serious eye irritation.

Information concerning particular hazards for human and environment: No further information

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms



GHS02

GHS07

Signal word

Warning

Hazard statements

H226	Flammable liquid and vapour
H312	Harmful in contact with skin
H319	Causes serious eye irritation

Precautionary statements

General

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Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash thoroughly after handling.
P280	Use protective gloves and eye protection.

Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage

P370+P378	In case of fire: Use CO ₂ , dry powder, foam or water spray to extinguish
P403+P233	Store in a well-ventilated place. Keep container tightly closed

Disposal

P501	Dispose of contents and container in accordance with national regulations
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2.3 Other hazards



Not a PBT, vPVB substance according to the criteria of REACH regulation

SECTION 3: Composition/information on ingredients

3.1 Substances

Ingredient	CAS No.	EC No.	Concentration (%)
Ethylene glycol monopropyl ether	2807-30-9	220-548-6	99 min
Additional information:			
Molecular Formula	C ₅ H ₁₂ O ₂		
Molecular Weight	104.15		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off all contaminated clothing immediately.
After inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention
After skin contact	Wash off with plenty of water immediately, seek medical advice if necessary.
After eye contact	Rinse with plenty of water immediately and seek medical advice.
After swallowing	Do not induce vomiting and seek medical advice immediately.
4.2 Most important symptoms and effects, both acute and delayed	Eye and skin irritation
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	CO ₂ , dry powder, foam or water spray
Unsuitable extinguishing media	water jet
5.2 Special hazards arising from the substance or mixture	May form toxic carbon oxides if case of fire; Combustible. Forms peroxides of unknown stability.
5.3 Advice for firefighters	Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Remove persons not involved upwind. Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.
6.2 Environmental precautions	Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits.
6.3 Methods and material for containment and cleaning up	In case of spills of large quantities: Dam spills and pump to remove. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.
6.4 Reference to other sections	Section 8 for information on personal protection equipment. Section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Do not breathe vapours. Use only explosion-protected equipment/instruments.
7.2 Conditions for safe storage, including any incompatibilities	
Advice on protection against	Keep away from sources of ignition. - No smoking. Take precautionary



fire and explosion	measures against static discharge.
Storage	Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Carbon steel, stainless steel are stable container materials. Do not store in: Aluminum. Copper. Galvanized iron. Galvanized steel.
Advice on common storage	Observe prohibition against storing together!
Storage class	Combustible liquid
Storage stability	Stable under recommended storage conditions
7.3 Specific end use(s)	Refer Section 1

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	TLV not established; TWA 25 mg/m ³
8.2 Exposure controls	
Appropriate engineering controls	Provide good ventilation and/or an exhaust system in the work area.
Personal protective equipment	
Eye/ face protection	closed goggles, face shield
Skin protection	
Hand protection	Butyl-rubber 0.5 mm > 480 min
Body protection	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes
Respiratory protection	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.
Thermal hazards	Flammable liquid; do not expose to heat
Industrial hygiene	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance	Colourless liquid
Odour	sweet smell
Odour threshold	no data
pH	no data
Melting point	<-20°C
Boiling point	147°C
Flash point	51°C (Closed cup)
Evaporation rate	0.2 (nBuAc=1)
Flammability (solid, gas)	not applicable
Flammability limits	no data
	Lower 1.26%
	Upper 15.8%
Vapour pressure	1.3 mmHg at 20°C
Vapour density	3.6 (air =1 at boiling point)
Relative density	0.913 at 20°C
Solubility in water	100% at 20°C (miscible in all proportions)
Partition coefficient	0.673 log Kow (n-octanol/water) at 40°C
Ignition temperature	256°C
Decomposition temperature	no data available
Viscosity at 25°C	2.4 mPa.s
Explosive properties	No explosive properties.
Oxidizing properties	No oxidizing properties
9.2 Other information	
Heat of combustion	-704.8 kcal/g·mol
Heat of vaporization	10030 cal/g·mol

SECTION 10: Stability and reactivity

10.1 Reactivity	No special reactivity
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10.2 Chemical stability	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
10.3 Possibility of hazardous reactions	No known hazardous reactions if used as directed
10.4 Conditions to avoid	Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems..
10.5 Incompatible materials	Avoid contact with strong acids, strong bases, strong oxidizers
10.6 Hazardous decomposition products	Thermal decomposition products- carbon oxides Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50	oral	rat	3089 mg/kg bw	Category 4
LC50	inhalation	8h, rat	> 2132 ppm	Category 3
LD50	Dermal	rabbit	1337 mg/kg bw	Category 4

Skin irritation

Mild skin irritation 24 h (rabbit) Category 4

Serious eye irritation

Irritating - 24 h (rabbit) Category 2A

Respiratory or skin sensitization

No sensitizing effects known

Germ cell mutagenicity

non mutagenic (Ames test)

Carcinogenicity

no indications for a carcinogenic potential

Reproductive toxicity

no adverse effect on reproduction (rat)

STOT-single exposure

irritating to skin; Category 4

STOT-repeated exposure

NOAEL <195mg/Kg bw/day; rat (oral); spleen

Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxicity to fish	LC50	96h	>5000mg/L	<i>Pimephales promelas</i>
Toxicity to aquatic invertebrates	LC50	48h	>5000mg/L	<i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	EC50	72h	>100 mg/L	<i>Pseudokirchneriella subcapitata</i>
Toxicity to microorganisms	EC50	16h	1000mg/L	sewage

12.2 Persistence and degradability

Biodegradation

readily biodegradable (98% in 28days)

12.3 Bioaccumulative potential

not conducted as substance ehas low potential to cross biological membranes

12.4 Mobility in soil

Koc: 1.55log Koc: 0.19

12.5 Results of PBT and vPvB assessment

Not a PBT, vPvB substance according to the REACH regulation

12.6 Other adverse effects

No further information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Observe all federal, state, and local environmental regulations.
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Do not dispose in sewage.

SECTION 14: Transport information

	ADR/RID	IMDG	ICAO/IATA
14.1 UN Number	1993	1993	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Ethylene glycol monopropyl ether)		
14.3 Transport hazard class	3	3	3
14.4 Packaging group	III	III	III
14.5 Environmental hazards	not environmentally hazardous, not a marine pollutant		
14.6 Special precautions for the user	Flammable liquids (class 3)		
EmS Number	F-E, S-E		



14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code See regulatory information for transport approval

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major accident hazard Seveso III not applicable

International Chemical Inventory Status

USA (TSCA) listed

Canada (DSL) listed

Australia (AICS) listed

Japan (MITI) listed

Korea (KECL) listed

Philippines (PICCS) listed

China listed

New Zealand listed

Taiwan listed

15.2 Chemical safety assessment A Chemical Safety Assessment will be carried out at the time of REACH registration

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information:

Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

Abbreviations and acronyms in English language:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA <https://echa.europa.eu/registration-dossier/-/registered-dossier/5863>

Chemid <https://chem.nlm.nih.gov/chemidplus/rn/2807-30-9>

Inchem <http://www.inchem.org/documents/icsc/icsc/eics0607.htm>

CDC <https://www.cdc.gov/niosh/ipcsneng/neng0607.html>