

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

### 1.1 Product identifier

Trade name	Dipropylene Glycol Methyl Ether Acetate/ DPMA
Chemical Name	1-(2-Methoxymethylethoxy)propanol, acetate
CAS Number	88917-22-0
EC Number	406-880-6

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

Relevant identified uses	Used as a solvent
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 4	H227	Combustible liquid
Skin Irritation	Category 2	H315	Causes skin irritation
Eye Irritation	Category 2A	H319	Causes serious eye irritation
STOT SE	Category 3	H335	May cause respiratory 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



Signal word  
Warning

Hazard statements  
H227 Combustible liquid  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

##### Precautionary statements

###### General

Prevention P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours or spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Use protective gloves and eye protection.

Response P302+P352 IF ON SKIN: Wash with plenty of water.  
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  
P312 Call a doctor if you feel unwell.  
P332+P313 If skin irritation occurs: Get medical attention.  
P337+P313 If eye irritation persists: Get medical attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage P403 Store in a well-ventilated place.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed



Disposal P405 Store locked up.  
 P501 Dispose of contents and container in accordance with national regulations

**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 (%)
Dipropylene Glycol Methyl Ether Acetate	88917-22-0	406-880-6	99 min

**Additional information:**  
 Molecular Formula C<sub>9</sub>H<sub>18</sub>O<sub>4</sub>  
 Molecular Weight 190.24

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

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

**SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media</b>	CO <sub>2</sub> , dry powder, foam or water spray
<b>Unsuitable extinguishing media</b>	water jet
<b>5.2 Special hazards arising from the substance or mixture</b>	May form toxic carbon oxides if case of fire.
<b>5.3 Advice for firefighters</b>	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**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Remove persons not involved upwind. Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.
<b>6.2 Environmental precautions</b>	Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits.
<b>6.3 Methods and material for containment and cleaning up</b>	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.
<b>6.4 Reference to other sections</b>	Section 8 for information on personal protection equipment. Section 13 for disposal information

**SECTION 7: Handling and storage**

<b>7.1 Precautions for safe handling</b>	Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Do not breathe vapours. Use only explosion-protected
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	equipment/instruments.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
<b>Advice on protection against fire and explosion</b>	Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge.
<b>Storage</b>	Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Store in Carbon steel. 304 stainless steel. Phenolic lined steel drums Do not store in aluminium, copper galvanized iron, galvanized steel.
<b>Advice on common storage</b>	Observe prohibition against storing together!
<b>Storage class</b>	Combustible liquid
<b>Storage stability</b>	Stable under recommended storage conditions
<b>7.3 Specific end use(s)</b>	Refer Section 1

### SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	TLV not established
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Provide good ventilation and/or an exhaust system in the work area.
<b>Personal protective equipment</b>	
<b>Eye/ face protection</b>	closed goggles, face shield
<b>Skin protection</b>	
<b>Hand protection</b>	Butyl-rubber 0.5 mm > 480 min
<b>Body protection</b>	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes
<b>Respiratory protection</b>	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.
<b>Thermal hazards</b>	Combustible liquid; do not expose to heat
<b>Industrial hygiene</b>	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

<b>9.1 Information on basic physical and chemical properties</b>	
<b>Appearance</b>	Colourless liquid
<b>Odour</b>	ether like, sweet
<b>Odour threshold</b>	no data
<b>pH</b>	no data
<b>Melting point</b>	-25.2°C
<b>Boiling point</b>	209°C
<b>Flash point</b>	87.5°C (Closed cup)
<b>Evaporation rate</b>	no data
<b>Flammability (solid, gas)</b>	not applicable
<b>Flammability limits</b>	no data
<b>Vapour pressure</b>	10.4Pa at 20°C
<b>Vapour density</b>	no data
<b>Relative density</b>	0.976 at 20°C
<b>Solubility in water</b>	183g/L (at 20°C, pH 4.3)
<b>Partition coefficient</b>	0.61 log Kow (n-octanol/water) at 25°C
<b>Ignition temperature</b>	340°C
<b>Decomposition temperature</b>	no data
<b>Viscosity at 20°C</b>	2.522mm <sup>2</sup> /s
<b>Explosive properties</b>	No explosive properties.
<b>Oxidizing properties</b>	No oxidizing properties
<b>9.2 Other information</b>	
<b>Heat of combustion</b>	no data
<b>Heat of vaporization</b>	no data



**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	No special reactivity
<b>10.2 Chemical stability</b>	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
<b>10.3 Possibility of hazardous reactions</b>	No known hazardous reactions if used as directed
<b>10.4 Conditions to avoid</b>	Avoid exposure to elevated temperatures.
<b>10.5 Incompatible materials</b>	Avoid contact with strong oxidizing agents, alkalis and amines
<b>10.6 Hazardous decomposition products</b>	Thermal decomposition products- carbon oxides

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

LD50	oral	rat	>5000 mg/kg bw	not classified
LC50	inhalation	4h, rat	>5.7mg/l	not classified
LD50	Dermal	rabbit	>2000mg/kg bw	not classified

**Skin irritation**

irritating to skin 24 h (rabbit) Category 2

**Serious eye irritation**

causes severe eye irritation - 24 h (rabbit)

**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 2

**STOT-repeated exposure**

NOAEL 1000mg/Kg bw/day; rat (oral); kidney

**Aspiration hazard**

no data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

Toxicity to fish	LC50	96h	151mg/L	<i>Pimephales promelas</i>
Toxicity to aquatic invertebrates	EC50	48h	2701mg/L	<i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	EC50	72h	>1,000mg/l	<i>Pseudokirchneriella subcapitata</i>
Toxicity to microorganisms				no data available

**12.2 Persistence and degradability**

**Biodegradation**

readily biodegradable (84% in 28days)

**12.3 Bioaccumulative potential**

Bioconcentration factor < 100.

very low potential for bioaccumulation

**12.4 Mobility in soil**

log Koc = 2.27; very low potential for geoaccumulation (Blume scale)

**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
<b>14.1 UN Number</b>	-	-	-
<b>14.2 UN proper shipping name</b>	Not a Hazardous substance		
<b>14.3 Transport hazard class</b>	-	-	-
<b>14.4 Packaging group</b>	-	-	-
<b>14.5 Environmental hazards</b>	not environmentally hazardous, not a marine pollutant		
<b>14.6 Special precautions for the user</b>	Combustible liquid		
<b>14.7 Transport in bulk according to</b>	See regulatory information for transport approval		



Annex II of MARPOL73/78 and  
the IBC Code

**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/15979/1>

Chemid                      <https://chem.nlm.nih.gov/chemidplus/rn/88917-22-0>

Inchem                      <http://www.inchem.org/documents/sids/sids/pges.pdf>