



SAFETY DATA SHEET

PROPYLENE GLYCOL

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: Propylene Glycol

PRODUCT NO: RM219

SYNONYMS, TRADE NAMES: 2-Propanediol; monopropylene glycol; PROPANE 1,2-DIOL

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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

Classification of the substances or mixture

The product is not classified as hazardous according to directive 1999/45/EEC

Label Elements

None

Hazards Phrases

Not Classified

Precautionary Phrases

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Risk Phrases

Not Applicable

Safety Phrases

After contact with skin, wash immediately with plenty of soap and water

Avoid contact with skin and eyes

Other Hazards

Mildly irritating to eyes

3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

- MONOPROPYLENE GLYCOL

Concentration: > 98%

CAS Number: 57-55-6

EC Number: 200-338-0
R/H Phrases:
Symbols:

4 FIRST - AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

If substance has got into eyes, immediately wash out with plenty of water

IF ON SKIN (or hair):

Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Mildly irritating to skin and eyes

IF INHALED:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED,

Do not induce vomiting: seek medical advice immediately and show this container or label

If swallowed rinse mouth with water (only if the person is conscious) give 200-300mls (half pint) water to drink

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Mildly irritating to skin and eyes

Indication of any immediate medical attention and special treatment needed

None Known

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA

High Volume Water Jet

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Vapours may ignite

ADVICE FOR FIREFIGHTERS

If exposed to fire toxic gasses may be formed wear full protective clothing including chemical protection suit

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective clothing.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter public sewers and watercourses

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb spillage in earth or sand collect as much as possible in clean container for reuse or disposal wash thoroughly after dealing with spillage.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

The usual precautions for handling chemicals should be observed

Keep away from heat and sources of ignition

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep away from oxidising substances

Keep away from strong acids

Keep cool. Protect from sunlight.

Specific end use(s)

See Section 1

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

DNEL	(inhalational) 168 mg/m ³
Note	- DNEL values are for workers only not consumers
PNEC	260mg/l freshwater
PNEC	26mg/l seawater
PNEC	572mg/kg freshwater
WEL	(long term) 474 mg/m ³

EXPOSURE CONTROLS

Chemical gloves, goggles and appropriate skin protection should be worn when handling

Appropriate respiratory protection should be worn for short periods if no extraction available

Ensure there is sufficient ventilation.

OCCUPATIONAL EXPOSURE CONTROLS

Wear suitable protective clothing

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Odour:	Odourless
Appearance:	Clear Liquid
Boiling point	184 deg C
Vapour pressure	20 mPa at 25 deg C
Vapour density	(air = 1) 2.6
Melting point	<minus 20 deg C
Completely	soluble in water
Relative Density	1.03 at 20 deg C
Flash point	104 deg C
Lower flammability limit	2.6% (in air)
Upper flammability limit	12.5% (in air)
Auto-ignition temperature	>400 deg C
Partition coefficient	: n-Octanol/water -1.07
Evaporation rate	(Butyl acetate = 1) 0.01
Viscosity	43.4 mPa.s at 25 deg C

OTHER INFORMATION

10 STABILITY AND REACTIVITY

REACTIVITY

Stable under normal temperature conditions and recommended use

CHEMICAL STABILITY

Stable at normal temperature conditions and recommended use.

HYGROSCOPIC**POSSIBILITY OF HAZARDOUS REACTIONS**

This material is not hazardous

CONDITIONS TO AVOID

Avoid contact with oxidising substances

Avoid contact with strong acids

Avoid contact with alkalis (strong bases)

INCOMPATIBLE MATERIALS

Incompatible with strong oxidizing substances

Incompatible with strong acids

Incompatible with alkalis (strong bases)

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products may include carbon oxides

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

LD50 (oral, rat) >20000 mg/kg

LD50 (skin, rabbit) >2000 mg/kg

LC50 (inhalation, rat) 634 mg/1/4h

Not hazardous

INHALATION

Not hazardous

CONTACT WITH SKIN

Not hazardous

CONTACT WITH EYES

May cause irritation

INGESTION

Not classified as hazardous but the ingestion of significant quantities should be referred to a physician.

CARCINOGENICITY

No evidence of carcinogenic effects

TERATOGENICITY

No evidence of reproductive effects

MUTAGENICITY

No evidence of mutagenic effects

12 ECOLOGICAL INFORMATION

TOXICITY

LC50 (fish) 40613mg/l (96hr)

EC50 (Daphnia magna) 340mg/l (48hr)

IC50 (algae) 19000mg/l (96hr)

PERSISTENCE AND DEGRADABILITY

Readily biodegradable

BIOACCUMULATION POTENTIAL

Low bioaccumulation potential

MOBILITY IN SOIL

Completely soluble in water

RESULTS OF PBT AND vPvB ASSESSMENT

Not a PBT according to REACH Annex XIII

OTHER ADVERSE EFFECTS

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Incineration by an approved method could be considered

To be disposed of as hazardous waste.

14 TRANSPORT INFORMATION

UN NUMBER**UN SHIPPING NAME****TRANSPORT HAZARD CLASS (ES)****PACKING GROUP****ENVIRONMENT HAZARDS****SPECIAL PRECAUTIONS FOR USER****TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE****EMERGENCY ACTION CODE****PROPER SHIPPING NAME** EAC:**ROAD /RAIL (ADR/RID)****PROPER SHIPPING NAME:**

ADR UN No.:

ADR Hazard Class:

ADR Item No.:

ADR/RID No.:

Tremcard:

Tunnel Code:

SEA (IMDG)**PROPER SHIPPING NAME:**

IMDG UN No.:

IMDG Hazard Class.:

IMDG Page No.:

IMDG Pack Group.:

IMDG EmS:

IMDG MFAG:

AIR (ICAO/IATA)**PROPER SHIPPING NAME:**

ICAO UN No.:

ICAO Hazard Class:

ICAO Packing Group:

DOT/CFR (US DEPARTMENT OF TRANSPORTATION)**DOT PROPER SHIPPING NAME:**

Hazardous Material:

Hazard Class:

Identification Number:

Product RQ (lbs)

15 REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Not hazardous according to current ADR Regulations

CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has been carried out.

16 OTHER INFORMATION

DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.