

# **Safety Data Sheet**

Date of issue: 07/01/2024 Revision date: 07/01/2024 Version: #2

#### **SECTION 1: Identification**

1.1. Identification

Product name : MONOPROPYLENE GLYCOL (MPG)

**EC number** : 200-338-0 **CAS-No**. : 57-55-6

Formula : HO-CH<sub>2</sub>-CH(OH)-CH<sub>3</sub>

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Supplier

#### **FARSA Group Ltd**

Sales@farsagroup.az

1.4. Emergency contacts

Emergency number : +994512707856

#### SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propane-1,2-diol	(CAS-No.) 57-55-6 (EC-No.) 200-338-0 (REACH-no) 01-2119456809-23- XXXX	~ 99.5	Not classified

#### 3.2. Mixtures

Not applicable

# **Safety Data Sheet**

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing.

Allow the victim to rest.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

ŕ

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation

Practically non-toxic. At high concentrations, the vapours can be irritating to the respiratory

Symptoms/effects after skin contact

: May cause slight irritation.

Symptoms/effects after eye contact Symptoms/effects after ingestion : Direct contact with the eyes is likely to be irritating.

: Ingestion may cause nausea and vomiting.

#### 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 Unsuitable extinguishing media : Dry powder. Carbon dioxide. Water spray. Sand. Alcohol resistant foam.

: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: Combustible.

Hazardous decomposition products in

case of fire

: Carbon monoxide. Carbon dioxide. Propionaldehyde.

#### 5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Ventilate spillage area. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment

**Emergency procedures** 

: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

: Ventilate area

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed

: Avoid the formation of mists in the atmosphere.

07/01/2024 EN (English) 2/6

# **Safety Data Sheet**

Precautions for safe handling Ensure good ventilation of the work station. Wear personal protective equipment. Wash

hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of

Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures

### Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place away from: Heat sources. Keep container closed when not in use. Storage conditions

Incompatible products Strong acids. Strong oxidizing agents. Isocyanates. Strong bases.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature

Information on mixed storage Do not store near oxidizing agents.

Store in a dry place. Material is hygroscopic. Storage area

### Specific and use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

# **Control parameters**

Monopropylene glycol (MPG) (57-55-6)				
United Kingdom		Local name	Propane-1,2-diol	
United Kingdom		WEL TWA (mg/m³)	10 mg/m³ particulates 474 mg/m³ total vapour and particulates	
United Kingdom		WEL TWA (ppm)	150 ppm total vapour and particulates	
United Kingdom		Regulatory reference	EH40/2005 (Third edition, 2018). HSE	
		Monopropylene glycol (MPG) (57	·-55-6)	
		DNEL/DMEL (Workers)		
Long-term - systemic effect	ts, inhalation		168 mg/m³	
Long-term - local effects,	Long-term - local effects, inhalation		10 mg/m³	
DNEL/DMEL (General population)				
Long-term - systemic effects, oral 85 mg/m³		85 mg/m³		
Long-term - systemic effects, inhalation 50 mg/m³		50 mg/m³		
Long-term - systemic effects, dermal 213 mg/m³		213 mg/m³		
Long-term - local effects, inhalation 10 mg/m³		10 mg/m³		
PNEC (Water)				
PNEC aqua (freshw	PNEC aqua (freshwater) 260 mg/l			
PNEC aqua (marine water)			26 mg/l	
		PNEC (Sediment)		
PNEC sediment (freshwater) 572 mg/kg dwt				
PNEC sediment (marine water) 57.2 mg/kg dwt		57.2 mg/kg dwt		
PNEC (Soil)				
PNEC soil	PNEC soil 50 mg/kg dwt			
		PNEC (STP)		
PNEC sewage treatme	ent plant		20000 mg/l	

07/01/2024 EN (English) 3/6

# **Safety Data Sheet**

Hand protection

Eye protection

#### 8.2. Exposure controls

**Appropriate engineering controls**: Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure. In case of splash hazard: safety glasses. Gloves.

Materials for protective clothing : Consult glove manufacturer's product information on material suitability and material thickness.

Chemical resistant gloves (according to European standard EN 374 or equivalent). Wear rubber

gloves. Nitrile rubber gloves. Neoprene protective gloves. PVC gloves

: Chemical goggles or safety glasses

**Skin and body protection**: Wear suitable protective clothing

Respiratory protection : Wear respiratory protection (in case of inadequate ventiliation)

Protective equipment symbol(s)







Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Appearance

Physical state	Liquid	Decomposition temperature	No data available
Appearance	Colorless, viscous liquid.	Flammability (solid, gas)	Flammable
Molecular mass	76.1 g/mol	Vapour pressure	20 Pa
Colour	Colourless.	Relative vapour density at 20 °C	No data available
Odour	Odourless.	Relative density	No data available
Odour threshold	No data available	Density	1.03 - 1.05 g/cm³
pН	No data available	Solubility	Soluble in water.
Relative evaporation rate (butylacetate=1)	0.01	Log pow	-1.07
Melting point	< -51 °C	Viscosity, kinematic	43 mm²/s (at 20 °C)
Freezing point	No data available	Viscosity, dynamic	No data available
Boiling point	184 °C	Explosive properties	No data available
Flash point	104 °C	Oxidising properties	Non oxidizing material according to EC
			criteria.
Auto-ignition temperature	> 370 °C	Explosive limits	2.6 - 12.5 vol %

#### 9.2. Other information

No additional information available.

#### **SECTION 10: Stability and reactivity**

10.1. Stability and reactivity

**Reactivity** : The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability : Stable at ambient temperature and under normal conditions of use.

Possibility of hazardous reactions : No polymerization

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

Incompatible materials : Strong acids. Strong oxidizing agents. Isocyanates. Strong bases.

**Hazardous decomposition products**: When heated to decomposition, emits toxic fumes. Carbon oxides (CO, CO2).

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral): Not classifiedAcute toxicity (dermal): Not classifiedAcute toxicity (inhalation): Not classifiedLD50 oral rat: 22000 mg/kgLD50 dermal rabbit: > 2000 mg/kg

07/01/2024 EN (English) 4/6

# **Safety Data Sheet**

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

**Ecology - general** : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in

the environment.

Ecology - water : Propylene glycol is known to exert high levels of biochemical oxygen demand (BOD) during

degradation in surface waters. This process can adversely affect aquatic life by consuming oxygen

needed by aquatic organisms.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Monopropylene glycol (MPG) (57-55-6)	
LC50 fish 1	40613 mg/l Rainbow trout (Oncorhynchus mykiss)
EC50 Daphnia 1	43500 mg/l
EC50 96h algae (1)	19000 mg/l
NOEC chronic crustacea	13020 mg/l
NOEC chronic algae	15000 mg/l

#### 12.2. Persistence and degradability

Monopropylene glycol (MPG) (57-55-6)	
Persistence and degradability	Readily biodegradable.
Chemical oxygen demand (COD)	1.53 g O₂/g substance
ThOD	1.68 g O₂/g substance
Biodegradation	96 % (64 days)

### 12.3. Bioaccumulative potential

Monopropylene glycol (MPG) (57-55-6)	
Log Pow	-1.07
Bioaccumulative potential	No bioaccumulation.

# 12.4. Mobility in soil

Monopropylene glycol (MPG) (57-55-6)	
Ecology - soil	Soluble material/quickly disperses in water.

#### 12.5. Results of PBT and vPvB assessment

Monopropylene glycol (MPG) (57-55-6)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Other adverse effects

Other adverse effects : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or

rivers.

Additional information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal : Dispose in a safe manner in accordance with local/national regulations. Do not pierce or recommendations burn even after use

recommendations burn, even after use. **Ecology - waste materials**: Avoid release to the environment.

07/01/2024 EN (English) 5/6

# **Safety Data Sheet**

#### **SECTION 14: Transport information**

14.1. UN number

UN No. (ADR/RID/ADN) : Not applicable
UN No. (IMDG) : Not applicable
UN No. (ICAO) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR/RID/ADN) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (ICAO) : Not applicable

14.3. Transport hazard class(es)

ADR/RID/ADN Class : Not applicable
IMDG Class : Not applicable
ICAO Class/Division : Not applicable

14.4. Packing group

ADR/RID/ADN Packing group : Not applicable

IMDG Packing group : Not applicable

ICAO Packing group : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport : No data available
Transport by sea : No data available
Air transport : No data available
Inland waterway transport : No data available
Rail transport : No data available

# **SECTION 15: Regulatory information**

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

**EU-Regulations** : No REACH Annex XVII restrictions

Monopropylene glycol (MPG) is not on the REACH Candidate List Monopropylene glycol (MPG) is not on the REACH Annex XIV List

National regulations : No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Information Sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of

16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

1907/2006.

Other information : None

#### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

07/01/2024 EN (English) 6/6