 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	M-05
	Mono Propylene Glycol (MPG)	Effective From	13.05.2020

## MATERIAL SAFETY DATA SHEET

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

#### 1.1. Product Identifier

Trade Name	Mono Propylene Glycol (MPG)
Synonyms	Propylene Glycol; Propane-1,2-diol; $\alpha$ -Propylene glycol; 1,2-Propanediol; 1,2-Dihydroxypropane; Methylethylene glycol.
Chemical Formula	$C_3H_8O_2$
CAS-Number	57-55-6
Molecular Weight	76.10 g·mol <sup>-1</sup>
REACH REGISTRATION NUMBER	01-2119456809-23-XXXX

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

Identified uses
Generally accepted for use as a component in the manufacture of substances like Flavors and Fragrance, Pet food and Animal Feed, Cosmetic and Personal Care, Pharmaceutical Excipient, Food and Flavoring, Tobacco Moisturizing Agent

#### 1.3. Manufacturer / Supplier Contact Information :

Name	<b>Bloomchemag Private Limited</b>
Address	Unit 108, Tower 1, Assotech Business Cresterra (ABC) Sector 135, Noida - 201301 India
Telephone	Phone: +91 72919 74050/ 72919 74484/ 98713 71594
Email	info@bloomchemag.com

#### Belgium Office Address –

Name	<b>Bloomchemag bvba</b>
Address	Sint-Antoniusstraat 16 b1 B-2400, Mol, Belgium. Phone; + 00 32 14 322136
Email	corporate@bloomchemag.com


#### 1.4. Emergency telephone number

Contact with the nearest local Fire Department

### SECTION 2: Hazard Identification

#### 2.1. Classification of the substance or mixture

Health Hazards	No specific hazards under normal use conditions
Safety Hazards	Not classified as flammable but might burn when exceed minimum levels

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	M-05
	Mono Propylene Glycol (MPG)	Effective From	13.05.2020

### SECTION 3: SECTION 3: Composition and Information on the Ingredients

#### 3.1 Substance

Material Name	Propane-1,2-diol
CAS No	57-55-6
EINECS NO	200-338-0

### SECTION 4: First Aid Measurements

#### 4.1. Description of First Aid Measures:

Inhalation	Remove to fresh air. Not expected to require first aid measures.
Ingestion	Not expected to require first aid measures. Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.
Skin Contact	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.
Note to Physician	In case of ingestion, monitor for acidosis and central nervous system changes. Exposed persons with previous kidney dysfunction may require special treatment.

### SECTION 5 : FIRE-FIGHTING MEASURES

**Fire:** Flash point: 99C (210F) CC


**Autoignition temperature:** 371C (700F)

**Flammable limits in air % by volume:** lel: 2.6; uel: 12.5; Material can support combustion.

**Explosion:** Containers may explode in heat or fire.

**Fire Extinguishing Media:** Dry chemical, foam, water or carbon dioxide.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Move exposed containers from fire area, if it can be done without risk. Use water to keep fire-exposed containers cool.

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	M-05
	Mono Propylene Glycol (MPG)	Effective From	13.05.2020

**SECTION 6: Accidental Release Measures**

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

**SECTION 7: HANDLING AND STORAGE**

Protect container from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Airborne Exposure Limits:** AIHA Workplace Environmental Exposure Level (WEEL): Vapor and Aerosol = 50ppm; Aerosol, only = 10mg/m<sup>3</sup>.

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and particulate filter (NIOSH type P95 or R95 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH P100 or R100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series filters are not recommended for this



## MATERIAL SAFETY DATA SHEET

MSDS No.

M-05

Mono Propylene Glycol (MPG)

Effective  
From

13.05.2020

material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

**WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Wear protective gloves and clean body-covering clothing.

**Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	Clear oily liquid
Odour	Odourless
Solubility	Miscible in water
Specific Gravity	1.0361
pH	No information found
% Volatiles by volume @ 21C (70F)	No information found
Boiling Point	188.2°C (370 °F)
Melting Point	-59°C (-74 °F)
Vapor Density (Air=1)	2.6
Vapor Pressure (mm Hg)	0.129 @ 25°C (77 °F)
Evaporation Rate (BuAc=1)	0.01

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition. Aldehydes or lactic, pyruvic or acetic acids may also be formed.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Strong oxidizing agents.


**Conditions to Avoid:** Heat, flames, ignition sources and incompatibles.

**SECTION 11: TOXICOLOGICAL**

Oral rat LD50: 20g/kg.

Skin rabbit LD50: 20.8g/kg.

Irritation: Eye rabbit/Draize, 500 mg/24H mild; Investigated as a mutagen and reproductive effector.

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	M-05
	Mono Propylene Glycol (MPG)	Effective From	13.05.2020

Ingredient	Known	Anticipated	IARC Category
Propylene Glycol (57-55-6)	No	No	None

**SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Fate:**  
 When released into the soil, this material is expected to get readily biodegraded and is expected to leach into groundwater.  
 When released into water, this material is expected to readily biodegrade.  
 When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. It is expected to have a half-life between 1 and 10 days.

**Environmental Toxicity:** No information found.

**SECTION 13: DIOSPOSAL AND TREATMENT CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14: TRANSPORT INFORMATION**


**Not regulated.**

**SECTION 15: REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulation may apply to this material.

EC Classification: Not classified as dangerous under EC criteria AICS:

AICS	Listed
DSL	Listed
INV(CN)	Listed
ENCS(JP)	Listed (2)-234
ISHL(JP)	Listed 2-(8)-321

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	M-05
	Mono Propylene Glycol (MPG)	Effective From	13.05.2020

ISHL(JP)	Listed 2-(8)-323
TSCA	Listed
EINECS	Listed 200-338-0
KECI(KR)	Listed KE-29267
PICCS(HP)	Listed

**SECTION 16: ADDITIONAL INFORMATION**

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0

Label Hazard Warning: CAUTION! MAY CAUSE IRRITATION TO SKIN AND EYES.

Label Precautions: Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling. Label First Aid:

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists.

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