 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

Section 1 – Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	DIPROPYLENE GLYCOL DIMETHYL ETHER
Synonyms	Bis(methoxypropyl)ether,
Registration number REACH	01-0000015420-83-0016
Product type REACH	Substance/mono-constituent
CAS No.	111109-77-4
EC Number	404-640-5
Molecular formula	C8-H18-O3
Molecular Mass	162.23 g/mol

1.2 Relevant identified uses of the substance and uses advised against

1.2.1 Relevant identified uses

Industrial solvent for cleaner and coating formulations.

Coatings – as a solvent for water-based polyurethane/isocyanate coating systems and solvent-based coating systems, including architectural and industrial maintenance coatings

1.2.2 Uses advised against

No use advised against


1.3 Manufacturer / Supplier Contact Information:

Name	Bloomchemag Private Limited
Address	Unit 108, Tower 1, Assotech Business Cresterra (ABC) Sector 135, Noida - 201301 India
Telephone	Phone: +91 120 7195 312
Email	sales@bloomchemag.com, Logistics@bloomchemag.com
Belgium Office Address	
Name	Bloomchemag bvba
Address	Sint-Antoniussstraat 16 b1 B-2400, Mol, Belgium
Email	info@bloomchemag.com

1.4 Emergency telephone number

24/24h (Telephone advice: English)

Phone: +3214322136 , +91-9871371594

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

SECTION 2 - HAZARD IDENTIFICATION

2.1 Hazard classification : Not hazard product

Harmful if swallowed, inhaled or absorbed through skin/eyes

Health Jeopardize: Causes central nervous system inhibition. Appears headache, dizzy, somnolences, unclear enunciation, walk haltingly, visual obscure etc symptoms.

Danger of explosion: Flammable

2.2 Label Elements

Signal word : Warning

Precautionary Statement and Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ eye protection/ face protection.

Response In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: Store in a well-ventilated place.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

2.3 Other Hazards: No other information available.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Name REACH Registration No	CAS No. EC No.	Percent	Classification according to CLP
DIPROPYLENE GLYCOL DIMETHYL ETHER 01-0000015420-83-0016	111109-77-4 404-640-5	98.5 %	


3.2. Mixtures

Not applicable

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General:

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

After Eye contact:

lift the eyelid and flush it with water or physiological saline. Call a physician.

After Skin contact:

Take off polluted clothes, immediately flush it with water completely. Get Medical attention immediately.

After Ingestion:

Drink enough water to induce vomiting immediately. Call a physician

After Inhalation:

Immediately remove to fresh air. Call a physician.

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

No information available

4.3 Indication of any immediate medical attention and special treatment needed.

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

5.1.1 Suitable Extinguishing Media

Water, Vapor water, Anti-deliquescent foam, dry chemical, or carbon dioxide, sand.

5.1.2 Unsuitable extinguishing Media:

No information available.


5.2 Special hazards arising from the substance or mixture

Flammability will be caused by fire and high temperature.
 Potential explosive peroxide may create when contact with air or under sunshine.
 Harmful Burn Decomposition Products: carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

5.3.1: Instructions:

Remove the containers from the fired place to open and safe place; Spray water to cool the containers until the firefighting is over. Withdraw immediately in case of rising sound from venting safety device or any discoloration of containers due to fire. Spray water to the overflow liquid and dilute it to become inflammable mixture, protect firefighter by vapor water.

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

5.3.2 Special protective equipment for fire -fighters:

Gloves, Safety glasses. Protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Keep all the staffs from the polluted area to safety place, and isolate the hazard area, keep unnecessary and unprotected personnel from entering. Cut off all sources of ignition. In the event of a fire, emergency staffs should wear self-contained breathing apparatus with face piece. Cut off the source of leakage and prevent the leaked material enter sewer or drain as well as some other limited space. Small spill: use plenty of water to flush, then dilute the polluted water and put them into worthless water system.

Large spill: Dike or sap for disposal. Divert spilled material to the tanker or special purpose collector by pump, reclaim or transport to rubbish disposal place.

6.1.1 Protective equipment for non-emergency personnel

See heading 8

6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8

6.2. Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information..

6.3. Methods and material for containment and cleaning up

Small spills: Absorb with materials such as: Sand. Vermiculite. Collect in suitable and properly labeled containers.

Large spills: Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

6.4. Reference to other sections


See heading 13.

SECTION 7 - HANDLING & STORAGE

7.1. Precautions for safe handling

Handling Notes: operate in hermetic location where providing well-ventilated condition. Operator must be trained strictly and abide by the regulation of operation. Advice operators to wear self-respired filter respirator (a half-face), chemical safety gloves. Away from any area where the fire or high temperature and No Smoking in the place. The ventilating device should meet the requirements of explosion proof; prevent the vapor from leaking into air of the work place. Avoid contact with oxidizer and acid product. Loading and unloading should be carefully, no damage to package and container. Relative enough firefighting device and emergency leakage disposal equipment should be equipped. Note maybe there is some harmful leftover in the emptied container.

Equipped with appropriate variety and quantity fire-fighting equipment. Equipped with emergency leakage disposal equipment and appropriate collective material.

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in the following material(s): Carbon steel. Stainless steel. Phenolic lined steel drums.

7.2.2 Keep away from:

- Keep away from heat.
- Keep away from sources of ignition.
- Ground all equipment containing material.

7.2.4 Non-suitable packaging material:

Aluminium. Copper. Galvanized iron. Galvanized steel.

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control: operate in hermetic location where providing well-ventilated condition.

Breathing System Protection: Usually special protection is not necessary, when contact high concentration vapor, a self-respired filter respirator (a half-face) shall be worn.

Eye protection: use chemical safety goggles when necessary

Body protection: wear common protective clothing

Hand protection: wear chemical proof gloves.

Others: No smoking in the work area. Avoid contacting it repeatedly for a long time

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

Contact limit in work place.

China MAC (mg/m³): no regulation

American ACGIH TLV-TMA 5ppm

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods


No information available

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

No information available

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

8.2.1 Appropriate engineering controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations

8.2.2 Individual protection measures, such as personal protective equipment

Individual protection measures
 Eye/face protection: Use safety glasses (with side shields).
 Skin protection
 Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl").
 NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
 Other protection: Wear clean, body-covering clothing.


8.2.3 Environmental exposure controls:

No information Available

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1: Information on basic physical and chemical properties

Physical State	Liquid
Appearance.	Colorless
Relative Density (water=1)	0.9 at 25 °C
Viscosity	1mpa.S at 25° C
Boiling Point	178°C
Melting Point	-80°C
Flash Point	70°C, closed cup
Water Solubility	35 % at 25 °C
Autoignition Temperature	165 °C
Specific Gravity/Density	0.90 g/cm ³ at 20 °C
Explosive Properties	Not Explosive
Oxidising properties	No
pH	No information Available
Lower Explosion limit	No information Available
Upper Explosion limit	No information available
Molecular weight	162.23 g/mol Literature

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

9.2: Other Information

No other information available.

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: No information available

10.2 Stability: stable under ordinary conditions of use and storage. Potential explosive peroxide may create when contact with air or under sunshine.

10.3 Hazardous Polymerization: will not occur

10.4 Conditions to Avoid: Heat, Flame, Ignition sources.

10.5 Incompatibilities: strong oxidizing agent, acid

10.6 Burn Decomposition Products: carbon dioxide and carbon monoxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity Data:

LD50: 11000mg/kg (big oral rat) [50% water solution]

LD50: 15000mg/kg (skin-rabbit)

LD50: no data

Irritation: irritative to rabbit eyes and skin.

Incur Distortion: no data

Incur sensitive: no data

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity: No data available.

Environmental: No information available.

Physical: No information available.

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4: Mobility in Soil


No information available

12.5 Result of PTB and vPvB assessment

Not applicable

12.6 Other adverse effects

No information available

 Bloomchemag Private Limited	MATERIAL SAFETY DATA SHEET	MSDS No.	BAL-02
	DIPROPYLENE GLYCOL DIMETHYL ETHER (DPDM)	Effective From	12.11.2018

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment methods

Dispose in accordance with all national and local applicable regulations in incinerator
 Advice to burn it for disposal.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION 14 - TRANSPORT INFORMATION

Hazard Commodity Description No: No data

UN No: No data

Packing Mark: No data

Packing Group: No data

Packing methods: No data

Attention: check that if containers are integrated and airtight. To be sure that container don't leak, collapse, fall and be damaged during the transportation. Prohibit mix transporting with oxide agent and acid. Isolate it with the electric source and ignition source when transport by ship. Drive in accordance with the regulated road when transport by truck.

SECTION 15 - REGULATORY INFORMATION

Product Description: Dipropylene glycol dimethyl ether.

In current Chinese Chemical Inventory: Yes

Severe toxin classification, sort and description No (GB57-93): not suitable

Hazard Commodity Description No (GB12268-90): no regulation

Fatal Hazard Sources Labeling (GB18218-2000): no regulation

SECTION 16 – Other Information

Hazard Rating System NFPA Health Fire Reactivity 1 2 0

Health	1
Fire	2
Reactivity	0

Company's Declaration: Information contained in this MSDS is believed to be correct but no representation; guarantee or warranties of any kind are made as to its accuracy, suitability for particular application or results to be obtained from them. This MSDS shall be used as a guide only. Bloomchemag Pvt Ltd makes no warranties expressed or implied of the adequacy of this document for any particular purpose.