
	MASTER SAFETY DATA SHEET <u>According to the UN GHS 10th rev.</u> <u>edition</u>	MSDS No.	M-01
	Trimethylolpropane	Effective From	06/08/2025

SECTION 1: Identification

GHS Product identifier:	TRIMETHYLOLPROPANE (TMP)
Other means of identification:	See section 3
Recommended use of the chemical and restrictions on use	
Recommended use:	Used as a raw material for synthesizing resins, as well as for synthesizing aviation lubricants, plasticizers, etc.
Recommended restrictions:	Not available
Supplier's details:	
Supplier:	Bloomchemag BV
Address:	Sint-Antoniusstraat 16 B1 B-2400, Mol, Belgium
Contact person(E-mail):	info@bloomchemag.com
Phone Number:	+91 72919 74484 / 72919 74050

SECTION 2: Hazard identification

GHS Classification of the substance or mixture:		
Physical hazards	Not classified	
Health hazards	Reproductive toxicity	Category 2
Environmental hazards	Not classified	
GHS label elements:		
Hazard Pictograms: :		
Signal word:	Warning	
Hazard statement(s):	Suspected of damaging fertility or the unborn child	
Precautionary statement(s):		
Prevention:	Obtain, read and follow all safety instructions before use. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection	
Response:	IF exposed or concerned, get medical advice.	
Storage:	Store locked up.	
Disposal:	Dispose of contents/containers in accordance with local regulations.	
Other hazards which do not result in classification:	Not applicable	

SECTION 3: Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	CAS No.	Concentration (%) w/w
TRIMETHYLOLPROPANE	77-99-6	≥99%

Other impurities	N/A	≤0.95%
Water	7732-18-5	≤0.05%

SECTION 4: First-aid measures

Description of necessary first-aid measures:

Inhalation:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
Skin:	Wash off with plenty of water. Get medical attention if symptoms occur. CONTACT WITH THE HOT MELT: Cooling immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. In order to obtain medical care for possible burns and for a smooth cleansing of the skin, seek medical advice immediately.
Eye:	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
Ingestion:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed:

Suspected of damaging fertility or the unborn child

Indication of immediate medical attention and special treatment needed, if necessary:

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	Avoid using water jet to extinguish the fire which may cause fire spread.
Specific hazards arising from the chemical:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
Special protective actions for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use water to cool containers exposed to fire and emit steam. Isolate the accident scene and prohibit the entry of unrelated persons. Contain and handle fire water to prevent environmental pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.
For emergency responders:	Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.
Environmental precautions:	Avoid disposing into drainage/sewer system or directly into the aquatic environment. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up:	Allow to solidify, use mechanical handling equipment. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling:	Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the application area.
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Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect from moisture. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Control parameters:

National occupational exposure:

Country	Substance	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
			ppm	mg/m ³	ppm	mg/m ³	Notes
Sweden	TRIMETHYLOLPROPANE	77-99-6	-	5	-	-	-

National Biological limit values: Not available.

Appropriate engineering controls: Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Provide eyewash station.

Individual protection measures, such as personal protective equipment (PPE):

Eye/face protection: Tightly fitting safety goggles.

Skin/Hand protection: Impervious clothing.
Suitable protective gloves. Material: Polyvinyl chloride – PVC, Nitrile rubber – NBR, Nitrile rubber – NBR, Wearing time: < 60 min.

Respiratory protection: When high levels of vapors or aerosols are not controlled by local ventilation, respiratory protection is recommended.

Thermal protection: Wear protective clothes if necessary

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state: Flaky solid
Colour: White
Odour: Slightly odor
Melting point/freezing point: 58 °C
Boiling point or initial boiling point and boiling range: 304.2 °C
Flammability: Non flammable
Lower and upper flammability limit Not available
Lower and upper explosion limit Not available
Flash point: 149 °C
Auto-ignition temperature: Not available
Decomposition temperature: Not available
pH: Not available
Kinematic viscosity Not available
Dynamic viscosity Not available
Solubility: Water: > 200 g/100ml (90 °C)
Partition coefficient: n-octanol/water (Log Kow): -0.47 (26 °C)
Vapor pressure: 0.0000449 mm Hg (25 °C)
Density: Not available
Relative density: 1.08 g/cm³ (20 °C)
Relative vapour density: Not available

Particle characteristics(solids):	D50: 72.91 µm
Surface tension	71 mN/m (20 °C)

SECTION 10: Stability and reactivity

Reactivity:	The substance is stable under normal storage and handling conditions.
Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Incompatible materials.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides.

SECTION 11: Toxicological information

Acute toxicity:	
LD50(Oral, Rat):	≈ 14700 mg/kg
LD50(Dermal, Rabbit):	> 10000 mg/kg
LC50(Inhalation, Rat):	> 0.85 mg/L 4h
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Suspected of damaging fertility or the unborn child.
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified
Other information:	No further information.

SECTION 12: Ecological information

Toxicity:	
Acute:	
LC50(Fish, 96h):	> 1000 mg/l
EC50(Daphnia, 48h):	13000 mg/l
EC50(Algae, 72h):	> 1000 mg/l
Chronic:	
NOEC(Fish):	Not available
NOEC(Daphnia):	> 1000 mg/l
NOEC(Algae):	Not available
Persistence and degradability:	Not readily biodegradable.
Bioaccumulative potential:	The potential for bioconcentration in fish is low.
Mobility in soil:	log Koc: 0.176
Other adverse effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

Disposal methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Empty containers should be taken to an approved
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waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTIONS 14: Transport information

IATA

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated

IMDG

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Marine pollutant	No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

SECTION 15: Regulatory information

Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AIIC)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

Indication of changes:	Version 1.0 Amended by GHS rev 10
Abbreviations and acronyms:	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation for rail International transportation of Dangerous goods ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: Code international maritime dangerous goods code ICAO: International Civil Aviation Organization IATA: International Air Transport Association LC50: median lethal concentration EC50: The effective concentration of substance that causes 50% of the maximum response NOEC: No Observed Effect Concentration DNEL: derived no-effect level PNEC: predicted no-effect concentration

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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