	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

SECTION 1. IDENTIFICATION

Product name : NPG 90%

Manufacturer or supplier's details

Company name of supplier : BloomchemAG

Address : Sint - Antoniusstraat 16 b1, B-2400 Mol,

Email : info@bloomchemag.com

Telephone : +91 7291999329

Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :




Signal Word : Danger

Hazard Statements : Causes serious eye damage.

Precautionary Statements : **Prevention:**
Wear eye protection/ face protection.

Response:

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name : Neopentyl Glycol

Ingredients


Chemical name	CAS-No.	Concentration (% w/w)
2,2-dimethyl-1,3-propanediol	126-30-7	90
Water	7732-18-5	10

SECTION 4. FIRST AID MEASURES

- If inhaled : Move to fresh air.
Treat symptomatically.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
- If swallowed : Seek medical advice.
- Most important symptoms and effects, both acute and delayed : None known.
Causes serious eye damage.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO2)
Dry chemical
Water spray
- Unsuitable extinguishing media : Do NOT use water jet.
- Specific hazards during fire fighting : None known.
- Hazardous combustion products : No hazardous combustion products are known.

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Further information : None known.

Special protective equipment : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

for fire-fighters

SECTION 6. ACCIDENTAL RELEASE MEASURES


Personal precautions, protective equipment and emergency procedures : Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : None known.

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Advice on safe handling : Do not get in eyes.
Wash thoroughly after handling.

Conditions for safe storage : Keep tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Ingredients	CAS-No.
2,2-dimethyl-1,3-propanediol	126-30-7

Engineering measures : Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels.
Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Wear safety glasses with side shields (or goggles).
Face-shield

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.
Ensure that eye flushing systems and safety showers are located close to the working place.
Use personal protective equipment as required.


Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES


Appearance : liquid

Color : white

Odor : mild

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Odor Threshold	:	not determined
pH	:	not determined
Melting point/freezing point	:	31 - 38°C
Boiling point/boiling range	:	100 - 121°C
Flash point	:	132 °C Method: Tag closed cup
Evaporation rate	:	not determined
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Relative density	:	0.94 (60°C)
Solubility(ies) Water solubility	:	830 g/l (20°C)
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	not determined
Decomposition temperature	:	Method: DTA No exotherm to 400°C

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Viscosity
 Viscosity, dynamic : not determined
 Viscosity, kinematic : not determined
 Explosive properties : Not classified
 Oxidizing properties : Not classified

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.
 Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : Stable
 Conditions to avoid : None known.
 Incompatible materials : Strong oxidizing agents
 Hazardous decomposition products : Carbon dioxide (CO₂)
 Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.


Product:

Acute oral toxicity : Remarks: None.
 Acute inhalation toxicity : Remarks: No significant adverse effects were reported
 Acute dermal toxicity : Acute toxicity estimate: 2,765 mg/kg
 Method: Calculation method
 Remarks: No significant adverse effects were reported

Ingredients:

2,2-dimethyl-1,3-propanediol:

Acute oral toxicity : LD50 Oral (Rat): 6,920 mg/kg
 Acute inhalation toxicity : LC50 (Rat): > 140 mg/l
 Exposure time: 8 h
 Acute dermal toxicity : LD50 Dermal (Guinea pig): > 4,000 mg/kg

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: No data available

Ingredients:

2,2-dimethyl-1,3-propanediol:

Species: Rabbit
Exposure time: 4 h
Result: none

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: Causes eye irritation.

Ingredients:

2,2-dimethyl-1,3-propanediol:

Species: Rabbit
Result: Corrosive
Exposure time: 24 h

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks: No data available

Ingredients:

2,2-dimethyl-1,3-propanediol:

Test Type: Skin Sensitization
Species: Mouse
Result: non-sensitizing


Germ cell mutagenicity

Not classified based on available information.

Ingredients:

2,2-dimethyl-1,3-propanediol:

Genotoxicity in vitro : Test Type: Mutagenicity - Bacterial

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Metabolic activation: +/- activation
Result: negative

: Test Type: Mutagenicity - Mammalian
Metabolic activation: +/- activation
Result: negative
Remarks: Read-across from a similar material

Carcinogenicity

Not classified based on available information.

Product:

Remarks: This information is not available.

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility : Remarks: No data available

STOT-single exposure

Not classified based on available information.

Product:

Remarks: No data available

STOT-repeated exposure

Not classified based on available information.

Product:


Remarks: No data available

Repeated dose toxicity

Ingredients:

2,2-dimethyl-1,3-propanediol:

Species: Rat, male
NOAEL: 300 mg/kg
Application Route: by gavage
Exposure time: 45 d

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Target Organs: Kidney

Species: Rat, female
 NOAEL: 1,000 mg/kg
 Application Route: by gavage
 Exposure time: 50 - 53 d
 Remarks: (highest dose tested)

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Information on likely routes of exposure

Product:

- Inhalation : Remarks: At elevated temperatures, vapor may be irritating.
- Skin contact : Remarks: None known.
- Eye contact : Remarks: Causes eye burns.
- Ingestion : Remarks: None known.

Further information

Product:

Remarks: None known.


SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

2,2-dimethyl-1,3-propanediol:

- Toxicity to fish : LC50 (Fish): > 10,000 mg/l
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (daphnid): > 500 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 (Chlorella pyrenoidosa): > 500 mg/l
Exposure time: 72 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: (daphnid): > 1,000 mg/l
Exposure time: 21 d

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/2025

Persistence and degradability

Ingredients:

2,2-dimethyl-1,3-propanediol:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: > 70 %
 Exposure time: 28 d
 Method: Ready Biodegradability: CO2 Evolution Test

Bioaccumulative potential

Ingredients:

2,2-dimethyl-1,3-propanediol:

Bioaccumulation : Bioconcentration factor (BCF): < 9
 Partition coefficient: n-octanol/water : Pow: 1.32
 log Pow: 0.12

Mobility in soil

Ingredients:

2,2-dimethyl-1,3-propanediol:

Distribution among environmental compartments : log Koc: 1
 Method: QSAR model

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good


IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name : 2,2-Dimethylpropane-1,3-diol (molten or solution)
 Pollution category : Z
 Ship type : 3

Domestic regulation

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/202

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Ingredients	CAS-No.	Component TPQ (lbs)
-------------	---------	---------------------

SARA 311/312 Hazards : Acute Health Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The ingredients of this product are reported in the following inventories:

- CH INV : On the inventory, or in compliance with the inventory
- DSL : On the inventory, or in compliance with the inventory
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- ISHL : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- TCSI : On the inventory, or in compliance with the inventory
- TSCA : On the inventory, or in compliance with the inventory

TSCA list


No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation,

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-02
	Neopentyl Glycol	Effective From	14/04/202

and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC

- International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vP vB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Material 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.