

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: DIPROPYLENE GLYCOL

Synonyms: OXYDIPROPANOL, DPG, DPG SGP, DIPROPYLENE GLYCOL REGULAR GRADE, DIPROPYLENE GLYCOL UKI ALS, DIPROPYLENE GLYCOL UKI BSF, DIPROPYLENE GLYCOL NO, DIPROPYLENE GLYCOL UKI, DIPROPYLENE GLYCOL BE, DIPROPYLENE GLYCOL FR, DIPROPYLENE GLYCOL ZW

EC number: 246-770-3

CAS number: 25265-71-8

Pure substance/mixture: Substance

Molecular weight: 134.18 g/mol

Relevant identified uses of the substance or mixture and uses advised against:

Recommended use:

- Coatings
- Cleaning agent
- Lubricant
- Metal working fluids / rolling oils,
- Binding agent
- Releasing agent
- Functional fluids
- Laboratory reagent
- Use in polymer processing.
- Chemical
- Antifreeze
- Intermediate
- Adjuvants
- Solvent
- Professional use
- Consumer use

Uses advised against: For further information, see attached Product Application Policy.

Company name:

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not Classified.

Label elements: Not Classified.

Hazard statements: Not Classified.

Other hazards: No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name: DIPROPYLENE GLYCOL 25265-71-8

Weight-%: ≥ 99.0 - $\leq 100.0\%$

EC No (EU Index No): 246-770-3

UK REACH registration number: -

Classification according to GB CLP (SI 2020/1567 as amended): -

Specific concentration limit (SCL): -

M-Factor: -

M-Factor (long-term): -

Full text of H- and EUH-phrases: See section 16.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59).

4. FIRST AID MEASURES

Description of first aid measures:

General advice: Use personal protection recommended in Section 8.

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Skin contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.

Ingestion: Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink 200-300 ml of water.
Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed:

Eyes: May cause slight eye irritation.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: Treat symptomatically.

[cont...]

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam or water spray.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: When heated and in case of fire, toxic vapours/gases may be formed.

Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon oxides. Aldehydes. Alcohols. Ether. Organic Acids.

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Follow precautions for safe handling described in this safety data sheet.

For emergency responders: Use personal protection recommended in Section 8.

Environmental precautions: See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections: See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Avoid spilling. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharge. Remove all sources of ignition.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

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Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Protect from atmospheric moisture. Air. Humidity. Store away from direct sunlight or ultraviolet light. Store away from the following materials. Strong oxidising agents. Keep at a temperature not exceeding 40 °C.

Packaging materials:

Suitable container/equipment material: Aluminium. Opaque HDPE plastic container. Stainless steel. Container lined with phenolic or epoxy-phenolic coating.

Unsuitable container/equipment material: Carbon Steel. copper. Galvanized containers. Zinc.

Specific end use(s):

Specific use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) – Workers:

Chemical name	Oral	Dermal	Inhalation
DIPROPYLENE GLYCOL 25265-71-8	-	84 mg/kg bw/day [4] [6]	238 mg/m3 [4] [6]
[4] Systemic health effects.			
[6] Long term.			

Derived No Effect Level (DNEL) - General Public:

Chemical name	Oral	Dermal	Inhalation
DIPROPYLENE GLYCOL 25265-71-8	24 mg/kg bw/day [4] [6]	51 mg/kg bw/day [4] [6]	70 mg/m3 [4] [6]
[4] Systemic health effects.			
[6] Long term.			

Predicted No Effect Concentration (PNEC):

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
DIPROPYLENE GLYCOL 25265-71-8	0.1 mg/L	1 mg/L	0.01 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
DIPROPYLENE GLYCOL 25265-71-8	0.238 mg/kg sediment dw	0.0238 mg/kg sediment dw	1000 mg/L soil dw	0.0253 mg/kg	313 mg/kg food

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Exposure controls:

Engineering controls: No information available.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection: Wear suitable gloves. Gloves must conform to standard EN 374.

Gloves:

Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective nitrile rubber gloves	0.4 mm	> 480 minutes
	Chloroprene rubber (CR)	0.5 mm	> 480 minutes
	Wear protective butyl rubber gloves	0.7 mm	> 480 minutes

Skin and body protection: Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection: Use appropriate respiratory protection.

Organic gases and vapours filter conforming to EN 14387. Type AP2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Liquid
Appearance:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	No information available

Property	Values	Remarks • Method
Melting point / freezing point	< -20°C	EC Method A1
Initial boiling point and boiling range	227°C	EU Method A.2
Flammability		The product is not flammable
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	128 - 130°C	Pensky-Martens closed cup. EC Method A9
Autoignition temperature	332°C	EC Method A15
Decomposition temperature		Not determined
pH	5 - 7.5	500 g/kg @ 20°C
pH (as aqueous solution)		No information available
Kinematic viscosity	118 mm²/s	@ 20°C. Read-across
Dynamic viscosity	75 mPa s	@ 25°C. Read-across
Water solubility	Completely soluble	
Solubility(ies)	Soluble in Solvent	
Partition coefficient	log Pow: -0.462	OECD 107. or Equivalent
Vapour pressure	1.3 Pa	@ 25°C. EC Method A4
	0.0128 hPa	@ 20°C. Read-across

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Relative density	1.02	@ 20°C / 20°C. Read-across
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density	4.63	Read-across
Particle characteristics		Not applicable. liquid
Particle Size:	No information available	
Particle Size Distribution:	No information available	
Explosive properties:	Not considered to be explosive	
Oxidising properties:	Does not meet the criteria for classification as oxidising	

Other information:

Molecular weight: 134.18 g/mol < 0.05 n-butyl acetate=1 Read-across

10. STABILITY AND REACTIVITY

Reactivity: No known effects under normal use conditions.

Chemical stability:

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Possibility of hazardous reactions: The following materials may react with the product: Strong oxidising agents.

Conditions to avoid: Store away from direct sunlight or ultraviolet light. Protect from moisture.
Keep at a temperature not exceeding 40°C.

Incompatible materials:

Materials to avoid: Strong oxidising agents.

Hazardous decomposition products: Carbon oxides. Aldehydes. Alcohols. Ether. Organic acids.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Inhalation: Inhalation of vapours in high concentration may cause irritation of respiratory system.

Eye contact: May cause slight eye irritation. Mist may cause eye irritation.

Skin contact: Non-irritating during normal use. Prolonged exposure not likely to cause significant skin irritation.

Ingestion: May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: No information available.

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Acute toxicity:

Numerical measures of toxicity:

Component Information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
DIPROPYLENE GLYCOL	>5000 mg/kg (Rat)	>5010 mg/kg (Rabbit)	>2.34 mg/L (Rat) 4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Prolonged exposure not likely to cause significant skin irritation.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Prolonged exposure not likely to cause significant skin irritation

Serious eye damage/eye irritation: May cause slight eye irritation. Mist may cause eye irritation.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight eye irritation
					Mist may cause eye irritation

Respiratory or skin sensitisation Not a skin sensitiser.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Exposure route	Results
	Human evidence	Dermal	Not a skin sensitiser
	Guinea pig	Dermal	Not a skin sensitiser

Germ cell mutagenicity Not mutagenic.

Component Information:

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Results
	in vitro	Negative
		Negative - Did not show mutagenic effects in animal experiments

Carcinogenicity: Did not cause cancer in laboratory animals.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Results
		Did not cause cancer in laboratory animals

Reproductive toxicity: This product does not contain any known or suspected reproductive hazards.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Results
		This product does not contain any known or suspected reproductive hazards

[cont...]

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STOT - single exposure: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Evaluation of available data suggests that this material is not an STOT-SE toxicant					

STOT - repeated exposure: In animals, effects have been reported on the following organs after ingestion: Nasal tissue. Kidney. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
In animals, effects have been reported on the following organs after ingestion: Nasal tissue. Kidney Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.					

Aspiration hazard: Based on available data the classification criteria are not met.

Other adverse effects: No information available.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity: The environmental impact of this product has not been fully investigated.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent	Pimephales promelas	LC50	46500 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent	Daphnia magna	EC50	>100 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test or Equivalent.	Desmodesmus subspicatus	EC50	>100 mg/L	72 hours	
	Colinus virginianus	LD50	>2000 mg/L	14 days	

Persistence and degradability: Readily biodegradable.

DIPROPYLENE GLYCOL (25265-71-8)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) or Equivalent.	28 days	Biodegradation 84.4%	Readily biodegradable
OECD Test No. 306: Biodegradability in Seawater or Equivalent.	64 days	Biodegradation 23.6%	Readily biodegradable

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Bioaccumulative potential:

Bioaccumulation: Not likely to bioaccumulate.

Bioconcentration factor (BCF): 0.3 - 4.6 Cyprinus carpio 42d

Component Information:

Chemical name	Partition coefficient
DIPROPYLENE GLYCOL	-0.46

Mobility in soil: Soluble in water.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
DIPROPYLENE GLYCOL	The substance is not PBT / vPvB

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

14. TRANSPORT INFORMATION

IATA:

UN number or ID number: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

IMDG:

UN number or ID number: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

Maritime transport in bulk according to IMO instruments: No information available

[cont...]

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RID:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

ADR:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

15. REGULATORY INFORMATION

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

National regulations:

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants: Not applicable

Export Notification requirements: Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended): Not applicable

The Ozone-Depleting Substances Regulations 2015: Not applicable

The Biocidal Products Regulations 2001 (as amended): Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended): Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended): Not applicable

Chemical safety assessment: Chemical Safety Report No Chemical Safety Assessment has been carried out for this substance/mixture.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

[cont...]

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16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet:

Legend: SVHC: Substances of Very High Concern for Authorisation

Legend Section 8: Exposure controls/personal protection:

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value
*	Skin designation
+	Sensitisers

Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.