

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

Product identifier:

Product Name: DIPROPYLENE GLYCOL
Chemical Name: DIPROPYLENE GLYCOL
Synonyms: Oxydipropanol propanol (Oxybispropanol)
REACH Registration No.: 01-2119456811-38-XXXX
CAS No.: 25265-71-8
EC No.: 246-770-3

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

Uses: Humectant and solvent in Fragrances, Cosmetics, Personal Care, Lubricants, Agrochemicals, Coatings, Manufacture and Formulation, Laboratory chemical and Industrial Use.
Not recommended where human eye exposure is possible such as theatrical mists and antifreeze solutions for eyewash stations.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: The product is not classified as hazardous according to directive 1999/45/EEC.

Label elements: None.
Hazard statements: Not classified.
Precautionary statements: Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product.
Risk Phrases: Not applicable.
Safety Phrases: After contact with skin, wash immediately with plenty of soap and water Avoid contact with skin and eyes.
Other hazards: Mildly irritating to eyes.

SAFETY DATA SHEET

Dipropylene Glycol

Issued: 18/06/2018

Page 2

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures: DIPROPYLENE GLYCOL
Concentration: >98%
CAS Number: 25265-71-8
EC Number: 246-770-3
H Statements:
Symbols:

4. FIRST AID MEASURES

Description of first aid measures: If substance has got into eyes, immediately wash out with plenty of water.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Mildly irritating to skin and eyes.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Most important symptoms and effects, both acute and delayed: Mildly irritating to skin and eyes

Indication of any immediate medical attention and special treatment needed: None known

5. FIRE-FIGHTING MEASURES

Extinguishing media: In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media.
High Volume Water Jet.

Special hazards arising from the substance or mixture: Vapours may ignite

Advice for firefighters: If exposed to fire toxic gasses may be formed.
Wear full protective clothing including chemical protection suit

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Wear protective clothing.

Environmental precautions: Do not allow to enter public sewers and watercourses.

Methods and material for containment and cleaning up: Absorb spillage in earth or sand.
Collect as much as possible in clean container for reuse or disposal.
Wash thoroughly after dealing with spillage.

Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.

[cont...]

SAFETY DATA SHEET

Dipropylene Glycol

Issued: 18/06/2018

Page 3

7. HANDLING AND STORAGE

Precautions for safe handling: The usual precautions for handling chemicals should be observed.
Keep away from heat and sources of ignition.

Conditions for safe storage, including any incompatibilities: Keep away from oxidising substances.
Keep away from strong acids.
Keep cool. Protect from sunlight.

Specific end use(s): See Section 1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: DNEL (dermal): 84 mg/kg
DNEL (inhalational): 238 mg/m³
Note - DNEL values are for Workers only not consumers.
PNEC 0.1 mg/l freshwater
PNEC 0.01 mg/l seawater
PNEC 0.238 mg/kg freshwater

Exposure controls: No special precautions are required for this product but if vapour levels exceed the WEL respiratory protection will be required.
Chemical gloves, goggles and appropriate skin protection should be worn when handling.

Occupational exposure controls: Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Odour: Slight smell of alcohol
Appearance: Clear Liquid
Boiling point: 227 °C at 760 mm /Hg
Vapour pressure: 0.0013 hPa at 25 °C
Vapour density (air = 1): 4.6
Melting point: < minus 20°C
Solubility: Completely soluble in water
Relative Density: 1.02 at 20°C
Flash point: 130 °C
Auto-ignition temperature: 332 °C
Partition coefficient: n-Octanol/water 0.462
Viscosity: 118 centistokes at 20°C
Other information:

[cont...]

SAFETY DATA SHEET

Dipropylene Glycol

Issued: 18/06/2018

Page 4

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal temperature conditions and recommended use

Chemical stability: Stable at normal temperature conditions and recommended use. - Hygroscopic

Possibility of hazardous reactions: This material is not hazardous

Conditions to avoid: Avoid contact with oxidising substances - Avoid contact with strong acids

Incompatible materials: Incompatible with strong oxidizing substances

Hazardous decomposition products: Decomposition products may include carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

LD50 (oral, rat): >5000 mg/kg
LD50 (skin, rabbit): >5010 mg/kg
LC50 (inhalation, rat): 2.34 mg/l/4h
Not hazardous

Inhalation: Not hazardous

Contact with skin: Not hazardous

Contact with eyes: May cause irritation

Ingestion: Not hazardous

Carcinogenicity: No evidence of carcinogenic effects

Teratogenicity: No evidence of reproductive effects

Mutagenicity: No evidence of mutagenic effects No evidence of reproductive effects

12. ECOLOGICAL INFORMATION

Toxicity: LC50 (fish): >1000 mg/l (96 hr)
EC50 (Daphnia magna): >100 mg/l (48 hr)
IC50 (algae): >100 mg/l (72 hr)

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: Low bioaccumulation potential

Mobility in soil: Completely soluble in water

Results of PBT and vPvB assessment: Not a PBT according to REACH Annex XIII

Other adverse effects:

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Incineration by an approved method could be considered.
To be disposed of as hazardous waste.

[cont...]

14. TRANSPORT INFORMATION**UN number:****UN proper shipping name:****Transport hazard class(es):****Packing group:****Environmental hazards:****Special precautions for user:****Transport in bulk according to Annex II of Marpol and the IBC Code:****Emergency Action Code:****Proper Shipping Name:****EAC:****Road/Rail (ADR/RID)****Proper Shipping Name:****ADR UN No.:****ADR Hazard Class:****ADR Item No.:****ADR/RID No.:****Tram card:****Tunnel Code:****Sea (IMDG)****Proper Shipping Name:****IMDG UN No.:****IMDG Hazard Class:****IMDG Page No.:****IMDG Pack Group:****IMDG EmS:****IMDG MFAG:****Air (ICAO/IATA):****Proper Shipping Name:****ICAO UN No.:****ICAO Hazard Class:****ICAO Packing Group:****DOT / CFR (US Department of Transportation):****DOT Proper Shipping Name:****Hazardous Material:****Hazard Class:****Identification Number:****Product RQ (lbs):**

SAFETY DATA SHEET

Dipropylene Glycol

Issued: 18/06/2018

Page 6

15. REGULATORY INFORMATION

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

Not hazardous according to current ADR Regulations

Chemical safety assessment: A chemical safety assessment has been carried out.

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.

16. OTHER INFORMATION

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.