



SAFETY DATA SHEET DIPROPYLENE GLYCOL

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name DIPROPYLENE GLYCOL
Product No. D0710001B, D0740025, D0740205, D0740210, D0740220, D0741000, D0710205, D0710215, D0711000, D0711030, D0740001B, D0740205R, D0740215R, D0740220R, 0D03BULK, D0730001, D0730001B, D0730205, D0730205R, D0730220, D0731000, D0710900, D0730210
Synonyms, Trade Names OXYDIPROPANOL
REACH Registration number 01-2119456811-38-xxxx
CAS-No. 25265-71-8
EC No. 246-770-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Chemical Cleaning agent. Lubricant.

1.3. Details of the supplier of the safety data sheet

Supplier Whyte Chemicals Limited
298 Regents Park Road
London
N3 2UA
+44 (0) 208 346 5946
+44 (0) 208 349 4589
mugford@whytechem.co.uk

1.4. Emergency telephone number

+44 (0)1270 502891

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)
Physical and Chemical Hazards Not classified.
Human health Not classified.
Environment Not classified.
Classification (67/548/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Environment

The product is not expected to be hazardous to the environment.

2.2. Label elements

EC No. 246-770-3
Label In Accordance With (EC) No. 1272/2008
No pictogram required.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name	DIPROPYLENE GLYCOL
REACH Registration number	01-2119456811-38-xxxx
CAS-No.	25265-71-8
EC No.	246-770-3

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Inhalation

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Immediately rinse mouth and provide fresh air. Drink plenty of water. Do not induce vomiting. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!

Skin contact

Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Continue to rinse for at least 15 minutes and seek medical attention.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention.

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

Inhalation

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion

No specific symptoms noted.

Skin contact

May cause skin irritation/eczema.

Eye contact

May cause temporary eye irritation.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Small fires: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Larger fires: Alcohol resistant foam. Water spray, fog or mist.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Vapours are heavier than air and may spread near ground to sources of ignition.

Specific hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

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Special Fire Fighting Procedures

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid water in straight hose stream; will scatter and spread fire. If possible, fight fire from protected position. Closed containers can burst violently when heated, due to excess pressure build-up. Keep run-off water out of sewers and water sources. Dike for water control. Dike and collect extinguishing water. Do not allow to enter drains, sewers or watercourses.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Warn everybody of potential hazards and evacuate if necessary. In case of inadequate ventilation, use respiratory protection. Wear protective clothing as described in Section 8 of this safety data sheet. Take precautionary measures against static discharges. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Absorb with sand or other inert absorbent. Collect in containers and seal securely. Remove containers and flush area with water. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Do not contaminate water sources or sewer. Do not let washing down water contaminate ponds or waterways. Dike far ahead of spill for later disposal. Keep run-off water out of sewers and water sources. Dike for water control. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear full protective clothing for prolonged exposure and/or high concentrations. Do not use in confined spaces without adequate ventilation and/or respirator. If ventilation is insufficient, suitable respiratory protection must be provided. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame. Protect from moisture. May attack some plastics, rubber and coatings. Suitable containers: mild steel, stainless steel. Avoid contact with oxidising agents.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

DNEL

Dermal	Long Term	Systemic Effects	84	mg/kg/day
Inhalation.	Long Term	Systemic Effects	238	mg/m3
Dermal	Long Term	Systemic Effects	51	mg/kg/day
Inhalation.	Long Term	Systemic Effects	70	mg/m3
Oral	Long Term	Systemic Effects	24	mg/kg/day

PNEC

Freshwater	0.1	mg/l
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Marinewater	0.01	mg/l
Intermittent release	1	mg/l
Sediment	0.238	mg/kg
Soil	0.0253	mg/kg
STP	1000	mg/l

8.2. Exposure controls

Protective equipment



Engineering measures

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with organic vapour cartridge.

Hand protection

Chemical resistant gloves required for prolonged or repeated contact. Nitrile gloves are recommended. Rubber (natural, latex).

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Provide eyewash station and safety shower.

Hygiene measures

When using do not eat, drink or smoke. Wash promptly if skin becomes wet or contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Wash hands after handling. Avoid inhalation of vapours and contact with skin and eyes.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Colourless.
Odour	Odourless.
Solubility	Miscible with water Soluble in: Alcohol Ether.
Initial boiling point and boiling range (°C)	233°C
Melting point (°C)	>-40°C
Relative density	1.0252 g/cm ³ @ 20°C
Vapour density (air=1)	4.63
Vapour pressure	0.03 mm Hg @ 25°C
Viscosity	1.07
Flash point (°C)	138°C
Auto Ignition Temperature (°C)	310°C
Flammability Limit - Lower(%)	2.9
Flammability Limit - Upper(%)	12.6
Partition Coefficient (N-Octanol/Water)	log Kow -1.2

9.2. Other information

Not available.

Mol. Weight 134.20 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

DIPROPYLENE GLYCOL

Unknown.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Oxidising materials.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Oxidising materials. Strong acids. May attack some plastics, rubber and coatings.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50
>2000 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)
> 5010 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)
> 2.34 mg/l (vapours) Rat 4 hours

Skin Corrosion/Irritation:

Not irritating.

Serious eye damage/irritation:

Not Irritating.

Respiratory or skin sensitisation:

Not sensitising.
Skin sensitisation
Buehler test: Guinea Pig
Not Sensitising.

Germ cell mutagenicity:

Genotoxicity - In Vitro
Gene Mutation:
Negative.
Genotoxicity - In Vivo
Chromosome aberration:
Negative.

Carcinogenicity:

This substance has no evidence of carcinogenic properties.

Reproductive Toxicity:

Reproductive Toxicity - Development
Developmental toxicity: NOAEL 5000 mg/kg Oral Rat

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General information

This product has low toxicity. Only large volumes may have adverse impact on human health.

Inhalation

No specific health warnings noted.

Ingestion

No specific health warnings noted.

Skin contact

Prolonged and frequent contact may cause redness and irritation. Skin irritation is not anticipated when used normally.

Eye contact

May cause temporary eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute Toxicity - Fish

LC50 96 hours 710 mg/l *Onchorhynchus mykiss* (Rainbow trout)

EC 50, 48 Hrs, *Daphnia*, mg/l >100

IC 50, 72 Hrs, Algae, mg/l >100

EC10 18h >=1000 mg/l

12.2. Persistence and degradability

Degradability

The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product is not bioaccumulating.

Bioaccumulation factor

BCF < 1

Partition coefficient

log Kow -1.2

12.4. Mobility in soil

Mobility:

Miscible with water

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14: TRANSPORT INFORMATION

DIPROPYLENE GLYCOL

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Cat Z

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing

No listing noted.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Workplace Exposure Limits 2005 (EH40)

Health and Safety at Work Act (As Amended) 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

Issued By	HS&E Manager.
Revision Date	02/01/2015
Revision	19
Supersedes date	21/08/2014
SDS No.	20381
Safety Data Sheet Status	Approved.
Date	22/07/1996
Risk Phrases In Full	
NC	Not classified.
Hazard Statements In Full	

Disclaimer

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