



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DIPROPYLENE GLYCOL

Version 3.0

Print Date 2017/11/17

Revision date / valid from 2017/11/17

MSDS code: MDPG001

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : DIPROPYLENE GLYCOL
Substance name : Oxydipropanol
CAS-No. : 25265-71-8
EC-No. : 246-770-3
EU REACH-Reg. No. : 01-2119456811-38-xxxx

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

Use of the Substance/Mixture : Coatings, Cleaning agent, Use in functional fluids, Use in agrochemicals, Manufacture of substances, Laboratory chemicals, Use in binder and release agents
Uses advised against : Don't use in cat food

1.3. Details of the supplier of the safety data sheet

Company : Supplies For Candles LTD
Unit E & C Swinton Bridge Industrial Estate, Whitelee Road,
Swinton, South Yorkshire, UK
Telephone : 01709 257 151
Telefax : 01709 257 151
E-mail address : customerservice@suppliesforcandles.co.uk

1.4. Emergency telephone number

Emergency telephone number : 01709 257 151

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Most important adverse effects

Human Health : See section 11 for toxicological information.
Physical and chemical : See section 9/10 for physicochemical information.

DIPROPYLENE GLYCOL

hazards
Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substances

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

Non-hazardous component

Chemical name	Identification Number	Amount [%]
Oxydipropanol	CAS-No. : 25265-71-8 EC-No. 246-770-3 REACH-Reg. No. 01-2119456811-38-xxxx	>= 90 - <= 100

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Move out of dangerous area. Take off all contaminated clothing immediately. If symptoms occur, call a physician.

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water. If skin irritation persists, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

DIPROPYLENE GLYCOL

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : Health injuries are not known or expected under normal use. See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or CO2.
Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Vapours may form explosive mixtures with air.
Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO2)

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Choose protective equipment according to size of fire.
Further advice : Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Keep away from heat and sources of ignition. Prevent unauthorized access.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be

DIPROPYLENE GLYCOL

contained.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work rooms.

Hygiene measures : Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapour/spray. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a dry place. Product is hygroscopic.

Advice on common storage : Incompatible with oxidizing agents.

Suitable packaging materials : Stainless steel, aluminium

Unsuitable packaging materials : , Zinc

7.3. Specific end use(s)

Specific use(s) : No information available.

DIPROPYLENE GLYCOL

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.

Contains no substances with occupational exposure limit values.

Component:	Oxydipropanol	CAS-No. 25265-71-8
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, Long-term - systemic effects, Skin contact : 84 mg/kg bw/day

DNEL

Workers, Long-term - systemic effects, Inhalation : 238 mg/m3

DNEL

General population, Long-term - systemic effects, Skin contact : 51 mg/kg bw/day

DNEL

General population, Long-term - systemic effects, Inhalation : 70 mg/m3

DNEL

General population, Long-term - systemic effects, Ingestion : 24 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water : 0.1 mg/l

Marine water : 0.01 mg/l

Intermittent releases : 1 mg/l

Sewage treatment plant (STP) : 1000 mg/l

Fresh water sediment : 0.238 mg/kg d.w.

Marine sediment : 0.024 mg/kg d.w.

Soil : 0.025 mg/kg d.w.

Secondary poisoning : 313 mg/kg food

8.2. Exposure controls

DIPROPYLENE GLYCOL

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended Filter type:
Combination filter: A-P2

Hand protection

Advice : Wear suitable gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid subsoil penetration.
Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid

Colour : colourless

Odour : odourless

DIPROPYLENE GLYCOL

Odour Threshold	: Not applicable
pH	: 7 - 8 (500 g/l)
Melting point/range	: < -20 °C
Boiling point/boiling range	: 227 °C
Flash point	: 128 - 132 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: 12.6 %(V)
Lower explosion limit	: 2.9 %(V)
Vapour pressure	: 0.013 hPa (25 °C)
Relative vapour density	: 4.6 (20 °C)
Density	: 1.02 - 1.03 g/cm ³ (25 °C)
Water solubility	: (20 °C) completely miscible
Solubility/qualitative	: miscible with most organic solvents
Partition coefficient: n-octanol/water	: log Kow -0.462 (21.7 °C)
Auto-ignition temperature	: 327 - 337 °C
Thermal decomposition	: no data available
Viscosity, dynamic	: 116 mPa.s (25 °C)
Viscosity, kinematic	: 118 mm ² /s (20 °C) 32 mm ² /s (40 °C)
Explosive properties	: EU legislation: Formation of explosive air/vapour mixtures is possible.
Oxidizing properties	: no data available

9.2. Other information

Molecular weight	: 192 g/mol
Surface tension	: 71.4 mN/m (22 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

DIPROPYLENE GLYCOL

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition. Keep away from direct sunlight.

Thermal decomposition : no data available

10.5. Incompatible materials

Materials to avoid : Acids, Oxidizing agents, Isocyanates

10.6. Hazardous decomposition products

Hazardous decomposition products : Fire may cause evolution of: Carbon dioxide (CO₂), Carbon monoxide, carbonyl compounds, dioxolan derivatives

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Component:	Oxydipropanol	CAS-No. 25265-71-8
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Acute toxicity

Oral

LD50 : > 5000 mg/kg body weight(Rat)

Inhalation

LC50 : > 2.34 mg/l (Rat, male and female; 4 h)

Dermal

LD50 : > 5010 mg/kg body weight(Rabbit, male and female)

Irritation

Skin

Result : No eye irritation (Rabbit) (EPA OPP 81-5)

Eyes

DIPROPYLENE GLYCOL

Result : No eye irritation (Rabbit) (EPA OPP 81-4)

Sensitisation

Result : not sensitizing (Buehler Test; Guinea pig) (EPA OPP 81-6)

CMR effects

CMR Properties

Carcinogenicity : Animal testing did not show any carcinogenic effects.
Mutagenicity : Animal testing did not show any mutagenic effects.
Teratogenicity : Animal testing did not show any effects on foetal development.
Reproductive toxicity : Animal testing did not show any effects on fertility.

Specific Target Organ Toxicity

Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties

Aspiration hazard

No aspiration toxicity classification,

SECTION 12: Ecological information

12.1. Toxicity

Component: Oxydipropanol CAS-No. 25265-71-8

Acute toxicity

Fish

LC50 : 46500 mg/l (Pimephales promelas (fathead minnow); 96 h) (OECD Test Guideline 203)

DIPROPYLENE GLYCOL

Toxicity to daphnia and other aquatic invertebrates

EC50 : > 100 mg/l (Daphnia magna; 48 h) (OECD Test Guideline 202)

algae

EC50 : > 100 mg/l (Scenedesmus subspicatus; 72 h) (OECD Test Guideline 201)

Bacteria

EC10 : > 1000 mg/l (Pseudomonas putida; 16 h)

12.2. Persistence and degradability

Component:	Oxydipropanol	CAS-No. 25265-71-8
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Persistence and degradability

Persistence

Result : no data available

Biodegradability

Result : 84.4 % (Exposure Time: 28 d)(OECD Test Guideline 301F)Readily biodegradable.

12.3. Bioaccumulative potential

Component:	Oxydipropanol	CAS-No. 25265-71-8
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Bioaccumulation

Result : log Kow -0.462 (21.7 °C)
: BCF: 0.3 - 4.6 (Cyprinus carpio (Carp)) (OECD Test Guideline 305C)Does not accumulate in organisms.

12.4. Mobility in soil

Data for the product

Surface tension

Result : 71.4 mN/m (22 °C)

DIPROPYLENE GLYCOL

Component:	Oxydipropanol	CAS-No. 25265-71-8
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Mobility

: The substance will not evaporate into the atmosphere from the water surface., Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment

Component:	Oxydipropanol	CAS-No. 25265-71-8
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Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

DIPROPYLENE GLYCOL

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

SECTION 15: Regulatory information

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

Data for the product

EU. REACH, Annex XVII, : ; Not listed
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

Component: Oxydipropanol CAS-No. 25265-71-8

EU. Regulation EU No. : ; Not listed
649/2012 concerning the
export and import of
dangerous chemicals

EU. REACH, Annex XVII, : ; Not listed
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

EU. Directive : ; The substance/mixture does not fall under this legislation.

DIPROPYLENE GLYCOL

2012/18/EU (SEVESO III) Annex I

Notification status

Oxydipropanol:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	246-770-3
ENCS (JP)	YES	(2)-413
IECSC	YES	
ISHL (JP)	YES	(2)-413
KECI (KR)	YES	KE-12226
NZIOC	YES	HSR003052
PICCS (PH)	YES	
TSCA	YES	

15.2. Chemical safety assessment

no data available

SECTION 16: Other information

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level

DIPROPYLENE GLYCOL

NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.