

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## Dipropylene glycol ( DPG )

Version	Revision Date:	SDS Number:	Date of last issue: 22.09.2022
1.4	06.03.2023	800001033950	Print Date 08.03.2023

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

#### 1.1 Product identifier

Trade name	: Dipropylene glycol ( DPG )
Product code	: U1521
Registration number EU	: 01-2119456811-38-0002
CAS-No.	: 25265-71-8
Other means of identification	: DPG; Oxydipropanol

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

Use of the Sub- stance/Mixture	: Please refer to section 16 and/or the annexes for the registered uses under REACH.
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#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: <b>Shell Chemicals Europe B.V.</b> PO Box 2334 3000 CH Rotterdam Netherlands
Telephone	: +31 (0)10 441 5137 / +31 (0)10 441 5191
Telefax	: +31 (0)20 716 8316 / +31 (0)20 713 9230
Contact for Safety Data Sheet	: sccmsds@shell.com

#### 1.4 Emergency telephone number

+44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per week)  
Giftnotruf (Berlin): +49 (0) 30 3068 6700

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Based on available data this substance / mixture does not meet the classification criteria.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word

Hazard statements	: PHYSICAL HAZARDS:
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Not classified as a physical hazard according to CLP criteria.

### HEALTH HAZARDS:

Not classified as a health hazard under CLP criteria.

### ENVIRONMENTAL HAZARDS:

Not classified as environmental hazard according to CLP criteria.

Precautionary statements : **Prevention:**  
No precautionary phrases.  
**Response:**  
No precautionary phrases.  
**Storage:**  
No precautionary phrases.  
**Disposal:**  
No precautionary phrases.

### 2.3 Other hazards

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Not classified as flammable but will burn.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Dipropylene glycol	25265-71-8 246-770-3	<= 100

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |   |  |
|----------------------------|---|--|
| General advice             | : | Not expected to be a health hazard when used under normal conditions.  |
| Protection of first-aiders | : | When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.                      |
| If inhaled                 | : | No treatment necessary under normal conditions of use.<br>If symptoms persist, obtain medical advice.  |
| In case of skin contact    | : | Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.<br>If persistent irritation occurs, obtain medical attention.          |
| In case of eye contact     | : | Flush eye with copious quantities of water.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>If persistent irritation occurs, obtain medical attention. |
| If swallowed               | : | In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.   |

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

- |          |   |   |
|----------|---|---|
| Symptoms | : | Not considered to be an inhalation hazard under normal conditions of use.<br>Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.<br><br>No specific hazards under normal use conditions.<br>Skin irritation signs and symptoms may include a burning sensation, redness, or swelling.<br><br>No specific hazards under normal use conditions.<br>Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.<br><br>No specific hazards under normal use conditions.<br>Ingestion may result in nausea, vomiting and/or diarrhoea. |
|----------|---|---|

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

- |           |   |   |
|-----------|---|---|
| Treatment | : | Call a doctor or poison control center for guidance.<br>Treat symptomatically. Following cases of gross over-exposure, investigation of liver, kidney and eye function may be advisable. Records of such incidents should be maintained for future reference. |
|-----------|---|---|

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media : Do not use water in a jet.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Material will not burn unless preheated.  
Carbon monoxide may be evolved if incomplete combustion occurs.  
Containers exposed to intense heat from fires should be cooled with large quantities of water.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Evacuate the area of all non-essential personnel.  
Keep adjacent containers cool by spraying with water.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe all relevant local and international regulations.  
Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.  
Local authorities should be advised if significant spillages cannot be contained.  
6.1.1 For non emergency personnel:  
Avoid contact with skin, eyes and clothing.  
6.1.2 For emergency responders:  
Avoid contact with skin, eyes and clothing.

#### 6.2 Environmental precautions

Environmental precautions : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

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Use appropriate containment to avoid environmental contamination.  
Ventilate contaminated area thoroughly.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain run-off from residue flush and dispose of properly. Soak up residue with an absorbent such as clay, sand or other suitable material.

For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.,  
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures	: Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Ensure that all local regulations regarding handling and storage facilities are followed.
Advice on safe handling	: Use local exhaust extraction over processing area. Handle and open container with care in a well-ventilated area. Do not empty into drains. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Handling Temperature: Ambient.
Product Transfer	: Keep containers closed when not in use. Do not pressurize drum containers to empty.

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Hygiene measures : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Further information on storage stability : Tanks must be clean, dry and rust-free.  
Keep container tightly closed.  
Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat.  
Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.  
Drums should be stacked to a maximum of 3 high.  
Storage Temperature:  
Ambient.

Packaging material : Suitable material: Stainless steel., Mild steel., Carbon steel  
Unsuitable material: Data not available

Container Advice : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

### 7.3 Specific end use(s)

Specific use(s) : Please refer to section 16 and/or the annexes for the registered uses under REACH.

Ensure that all local regulations regarding handling and storage facilities are followed.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dipropylene glycol	25265-71-8	AGW (Vapour and aerosols, inhalable fraction)	100 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category): 2;(II)				
Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Sum of vapor and aerosols., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

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### Biological occupational exposure limits

No biological limit allocated.

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Remarks:	not required
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### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Remarks:	Exposure assessments have not been presented for the environment therefore PNEC values not required.	

## 8.2 Exposure controls

### Engineering measures

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Adequate ventilation to control airborne concentrations.

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

#### General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

### Personal protective equipment

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.  
Approved to EU Standard EN166.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Nitrile rubber. Incidental contact/Splash protection: PVC, neoprene or nitrile rubber gloves For continuous contact we recom-

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mend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

- |                          |   |   |
|--------------------------|---|---|
| Skin and body protection | : | Skin protection is not ordinarily required beyond standard work clothes.<br>It is good practice to wear chemical resistant gloves.  |
| Respiratory protection   | : | No respiratory protection is ordinarily required under normal conditions of use.<br>In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |                             |   |                    |
|-----------------------------|---|--------------------|
| Physical state              | : | Liquid.            |
| Colour                      | : | colourless         |
| Odour                       | : | odourless          |
| Odour Threshold             | : | Data not available |
| Melting / freezing point    | : | -20 °C             |
| Boiling point/boiling range | : | 227 °C             |

#### Flammability

- |                           |   |                |
|---------------------------|---|----------------|
| Flammability (solid, gas) | : | Not applicable |
|---------------------------|---|----------------|

#### Lower explosion limit and upper explosion limit / flammability limit

- |                         |   |           |
|-------------------------|---|-----------|
| Upper explosion limit / | : | 12,6 %(V) |
|-------------------------|---|-----------|



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upper flammability limit

Lower explosion limit /  
Lower flammability limit : 2,9 %(V)

Flash point : 130 °C  
Method: ASTM D-93 / PMCC

Auto-ignition temperature : 327 - 337 °C

Decomposition temperature  
Decomposition temperature : Data not available

pH : 7

Viscosity  
Viscosity, dynamic : 116 mPa.s (25 °C)  
Method: ASTM D445

Viscosity, kinematic : 118 mm<sup>2</sup>/s (20 °C)  
Method: ASTM D445  
  
32 mm<sup>2</sup>/s (40 °C)  
Method: ASTM D445

Solubility(ies)  
Water solubility : Completely miscible.

Partition coefficient: n-  
octanol/water : log Pow: -0,462 (21,7 °C)

Vapour pressure : 1,3 Pa (25 °C)

Relative density : 1,023  
Method: ASTM D4052

Density : 1,03 g/cm<sup>3</sup> (20 °C)  
Method: ASTM D4052

Relative vapour density : 4,6 (20 °C)

Particle characteristics  
Particle size : Data not available

### 9.2 Other information

Explosives : Not applicable

Oxidizing properties : Data not available

Evaporation rate : Data not available

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Conductivity : Electrical conductivity: > 10,000 pS/m

A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid, This material is not expected to be a static accumulator.

Surface tension : 71,4 mN/m, 22 °C

Molecular weight : 134,2 g/mol

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

#### 10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions  
Oxidises on contact with air.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

#### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

Product cannot ignite due to static electricity.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.  
Strong acids.  
Strong bases.

#### 10.6 Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

Carbonyl and dioxolane derivatives may be formed.

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

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### Acute toxicity

#### Product:

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD 50 (Rat, male and female): > 5.000 mg/kg<br>Method: US EPA Test Guideline OPP 81-1<br>Remarks: Based on available data, the classification criteria are not met.  |
| Acute inhalation toxicity | : LC 50 (Rat, male and female): > 2,34 mg/l<br>Exposure time: 4 h<br>Test atmosphere: Aerosol<br>Method: Other guideline method.<br>Remarks: Based on available data, the classification criteria are not met. |
| Acute dermal toxicity     | : LD 50 (Rabbit, male and female): > 5.000 mg/kg<br>Method: Other guideline method.<br>Remarks: Based on available data, the classification criteria are not met.  |

#### Components:

##### **Dipropylene glycol:**

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD 50 (Rat, male and female): > 5.000 mg/kg<br>Method: US EPA Test Guideline OPP 81-1<br>Remarks: Based on available data, the classification criteria are not met.  |
| Acute inhalation toxicity | : LC 50 (Rat, male and female): > 2,34 mg/l<br>Exposure time: 4 h<br>Test atmosphere: Aerosol<br>Method: Other guideline method.<br>Remarks: Based on available data, the classification criteria are not met. |
| Acute dermal toxicity     | : LD 50 (Rabbit, male and female): > 5.000 mg/kg<br>Method: Other guideline method.<br>Remarks: Based on available data, the classification criteria are not met.  |

### Skin corrosion/irritation

#### Product:

- |         |   |
|---------|---|
| Species | : Rabbit  |
| Method  | : Other guideline method.   |
| Remarks | : Based on available data, the classification criteria are not met. |

#### Components:

##### **Dipropylene glycol:**

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Species	:	Rabbit
Method	:	Other guideline method.
Remarks	:	Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

#### Product:

Species	:	Rabbit
Method	:	Other guideline method.
Remarks	:	Based on available data, the classification criteria are not met.

#### Components:

##### Dipropylene glycol:

Species	:	Rabbit
Method	:	Other guideline method.
Remarks	:	Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation

#### Product:

Species	:	Guinea pig
Method	:	Other guideline method.
Remarks	:	Based on available data, the classification criteria are not met.

#### Components:

##### Dipropylene glycol:

Species	:	Guinea pig
Method	:	Other guideline method.
Remarks	:	Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro	:	Method: Acceptable non-standard method. Remarks: Based on available data, the classification criteria are not met.
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Method: Test(s) equivalent or similar to OECD Test Guideline 476

Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo	:	Species: Mouse Method: OECD Test Guideline 474 Remarks: Based on available data, the classification criteria are not met.
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Germ cell mutagenicity- As-	:	This product does not meet the criteria for classification in
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assessment categories 1A/1B.

### Components:

#### **Dipropylene glycol:**

Genotoxicity in vitro : Method: Acceptable non-standard method.  
Remarks: Based on available data, the classification criteria are not met.

Method: Test(s) equivalent or similar to OECD Test Guideline 476  
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Species: Mouse  
Method: OECD Test Guideline 474  
Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity- Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### **Carcinogenicity**

#### Product:

Species : Mouse, male and female  
Application Route : Oral  
Method : Acceptable non-standard method.  
Remarks : Based on available data, the classification criteria are not met.

Carcinogenicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### Components:

#### **Dipropylene glycol:**

Species : Mouse, male and female  
Application Route : Oral  
Method : Acceptable non-standard method.  
Remarks : Based on available data, the classification criteria are not met.

Carcinogenicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

Material	GHS/CLP Carcinogenicity Classification
Dipropylene glycol	No carcinogenicity classification.

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### Reproductive toxicity

#### Product:

Effects on fertility	:	Species: Mouse Sex: male and female Application Route: Oral  Method: Literature data Remarks: Based on available data, the classification criteria are not met.
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Reproductive toxicity - Assessment	:	This product does not meet the criteria for classification in categories 1A/1B.
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#### Components:

##### **Dipropylene glycol:**

Effects on fertility	:	Species: Mouse Sex: male and female Application Route: Oral  Method: Literature data Remarks: Based on available data, the classification criteria are not met.
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Reproductive toxicity - Assessment	:	This product does not meet the criteria for classification in categories 1A/1B.
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### STOT - single exposure

#### Product:

Remarks	:	Based on available data, the classification criteria are not met.
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#### Components:

##### **Dipropylene glycol:**

Remarks	:	Based on available data, the classification criteria are not met.
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### STOT - repeated exposure

#### Product:

Remarks	:	Based on available data, the classification criteria are not met.
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#### Components:

##### **Dipropylene glycol:**

Remarks	:	Based on available data, the classification criteria are not met.
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### Repeated dose toxicity

#### Product:

Species	:	Rat, male and female
Application Route	:	Oral
Method	:	Acceptable non-standard method.
Target Organs	:	No specific target organs noted

#### Components:

##### Dipropylene glycol:

Species	:	Rat, male and female
Application Route	:	Oral
Method	:	Acceptable non-standard method.
Target Organs	:	No specific target organs noted

### Aspiration toxicity

#### Product:

Based on available data, the classification criteria are not met.

#### Components:

##### Dipropylene glycol:

Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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### Further information

#### Product:

Remarks	:	Classifications by other authorities under varying regulatory frameworks may exist.
Remarks	:	Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Components:

##### Dipropylene glycol:

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Remarks : Classifications by other authorities under varying regulatory frameworks may exist.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

Toxicity to fish	: LC50 ( <i>Oryzias latipes</i> (Japanese medaka)): > 1.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 ( <i>Daphnia magna</i> (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants	: EC50 ( <i>Desmodesmus subspicatus</i> (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic toxicity)	: Chronic Toxicity Value: 1.340 mg/l Exposure time: 30 d Method: Based on quantitative structure-activity relationship (QSAR) modelling Remarks: NOEC/NOEL > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Chronic Toxicity Value: 466 mg/l Exposure time: 16 d Species: <i>Daphnia</i> (water flea) Method: Based on quantitative structure-activity relationship (QSAR) modelling Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l
Toxicity to microorganisms	: EC10 ( <i>Pseudomonas putida</i> ): >= 1.000 mg/l Exposure time: 18 h Method: Test(s) equivalent or similar to OECD Guideline 209 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l

##### Components:

##### **Dipropylene glycol:**

Toxicity to fish	: LC50 ( <i>Oryzias latipes</i> (Japanese medaka)): > 1.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
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	Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to microorganisms	: EC10 (Pseudomonas putida): >= 1.000 mg/l Exposure time: 18 h Method: Test(s) equivalent or similar to OECD Guideline 209 Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic toxicity)	: Chronic Toxicity Value: 1.340 mg/l Exposure time: 30 d Method: Based on quantitative structure-activity relationship (QSAR) modelling Remarks: NOEC/NOEL > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Chronic Toxicity Value: 466 mg/l Exposure time: 16 d Species: Daphnia (water flea) Method: Based on quantitative structure-activity relationship (QSAR) modelling Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l

### 12.2 Persistence and degradability

#### Product:

Biodegradability	: Biodegradation: 84,4 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Readily biodegradable.
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#### Components:

##### **Dipropylene glycol:**

Biodegradability	: Biodegradation: 84,4 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Readily biodegradable.
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### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 42 d  
Bioconcentration factor (BCF): 0,3 - 4,6  
Method: OECD Test Guideline 305C  
Remarks: Does not bioaccumulate significantly.

#### Components:

##### **Dipropylene glycol:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 42 d  
Bioconcentration factor (BCF): 0,3 - 4,6  
Method: OECD Test Guideline 305C  
Remarks: Does not bioaccumulate significantly.

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.

#### Components:

##### **Dipropylene glycol:**

Mobility : Remarks: If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

#### Components:

##### **Dipropylene glycol:**

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article

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57(f) or Commission Delegated regulation (EU) 2017/2100 or  
Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Remove all packaging for recovery or waste disposal.  
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.  
Do not dispose into the environment, in drains or in water courses.  
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : Not regulated as a dangerous good

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**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.2 UN proper shipping name

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.4 Packing group

CDNI Inland Water Waste Agreement : NST 8963 Dipropylene Glycol

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.5 Environmental hazards

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

### 14.7 Maritime transport in bulk according to IMO instruments

Pollution category : Z  
Ship type : 3  
Product name : Dipropylene glycol

**Additional Information** : This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a confined space entry. Transport in bulk according to Annex II of Marpol and the IBC Code

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### SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV)	:	Product is not subject to Authorisation under REACH.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Water hazard class (Germany)	:	WGK 1 slightly hazardous to water Code Number: 3.419 Remarks: Classification according to AwSV

#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Product is subject Betriebs-Sicherheits-Verordnung (BetrSichV).

Youth Employment Law Not Applicable.

Maternity Protection Act Not Applicable

#### The components of this product are reported in the following inventories:

AIIC	:	Listed
DSL	:	Listed
IECSC	:	Listed
ENCS	:	Listed
KECI	:	Listed
NZIoC	:	Listed
PICCS	:	Listed
TSCA	:	Listed
TCSI	:	Listed

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### 15.2 Chemical safety assessment

A Chemical Safety Assessment was performed for all substances of this product.

## SECTION 16: Other information

### Full text of other abbreviations

DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice	:	Provide adequate information, instruction and training for operators.
Other information	:	This product is not classified for human health or environmental hazards. An exposure scenario is not required. For Industry guidance and tools on REACH please visit the CEFIC website at <a href="http://cefic.org/Industry-support">http://cefic.org/Industry-support</a> . The substance does not fulfill all screening criteria for persis-

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tence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

### Identified Uses according to the Use Descriptor System

#### Uses - Worker

Title : - Industrial  
Manufacture of substance  
Distribution of substance  
Use as an intermediate  
Formulation & (re)packing of substances and mixtures  
Use in Cleaning Agents  
Lubricants  
Use in metal working fluids/rolling oils  
Use in coatings  
Water treatment chemicals

#### Uses - Worker

Title : - Professional  
Use in Cleaning Agents  
Use in metal working fluids/rolling oils  
Use in functional fluids  
Use in laboratories  
Water treatment chemicals  
Use in coatings

#### Uses - Consumer

Title : - Consumer  
Use in Cleaning Agents  
Use in coatings

The information provided in this 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.

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