

# Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Dipropylene glycol $\geq 99\%$ , pure

article number: **8656**  
Version: **GHS 3.0 en**  
Replaces version of: 2022-01-11  
Version: (GHS 2)

date of compilation: 2020-10-06  
Revision: 2024-03-03

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

### 1.1 Product identifier

|                                 |  |
|---------------------------------|--|
| Identification of the substance | <b>Dipropylene glycol <math>\geq 99\%</math>, pure</b> |
| Article number                  | 8656   |
| CAS number                      | 25265-71-8   |
| Alternative name(s)             | Oxydipropanol  |

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

|                           |   |
|---------------------------|---|
| Relevant identified uses: | Laboratory chemical<br>Laboratory and analytical use                                  |
| Uses advised against:     | Do not use for private purposes (household).<br>Food, drink and animal feedingstuffs. |

### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0  
**Telefax:** +49 (0) 721 - 56 06 149  
**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)  
**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

**e-mail (competent person):** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

This substance does not meet the criteria for classification.

### 2.2 Label elements

#### Labelling

not required

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### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |                    |
|-------------------|--------------------|
| Name of substance | Dipropylene glycol |
| Molecular formula | $C_6H_{14}O_3$     |
| Molar mass        | 134.2 $g/mol$      |
| CAS No            | 25265-71-8         |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off contaminated clothing.

#### Following inhalation

Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings!  
water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

No special measures are necessary.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

#### Human health values

| Relevant DNELs and other threshold levels |                       |                                    |                   |                            |
|---|-----------------------|------------------------------------|-------------------|----------------------------|
| Endpoint                                  | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
| DNEL                                      | 238 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| DNEL                                      | 84 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |

#### Environmental values

| Relevant PNECs and other threshold levels |                 |                       |                              |                              |
|---|-----------------|-----------------------|------------------------------|------------------------------|
| End-point                                 | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| PNEC                                      | 0.1 mg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| PNEC                                      | 0.01 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| PNEC                                      | 1,000 mg/l      | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| PNEC                                      | 0.238 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| PNEC                                      | 0.024 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| PNEC                                      | 0.025 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |

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### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



- **hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

- **type of material**

NBR (Nitrile rubber)

- **material thickness**

>0,11 mm

- **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

##### Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

##### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                             |
|--|-----------------------------|
| Physical state   | liquid                      |
| Colour   | colourless                  |
| Odour  | odourless                   |
| Melting point/freezing point                             | <-20 °C at 101.3 kPa (ECHA) |
| Boiling point or initial boiling point and boiling range | 227 °C at 98.36 kPa (ECHA)  |

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|   |   |
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| Flammability  | this material is combustible, but will not ignite readily   |
| Lower and upper explosion limit                     | 2.9 vol% (LEL) - 12.6 vol% (UEL)                            |
| Flash point   | 130 °C at 98.88 kPa (ECHA)                                  |
| Auto-ignition temperature                           | 332 °C at 100.2 kPa (ECHA)                                  |
| Decomposition temperature                           | not relevant  |
| pH (value)  | 7 – 8 (20 °C)   |
| Kinematic viscosity                                 | 118 mm <sup>2</sup> /s at 20 °C                             |
| Dynamic viscosity                                   | 116 mPa s at 25 °C  |
| <u>Solubility(ies)</u>                              |   |
| Water solubility                                    | (soluble)   |
| <u>Partition coefficient</u>                        |   |
| Partition coefficient n-octanol/water (log value):  | -0.462 (pH value: 6, 21.7 °C) (ECHA)                        |
| Vapour pressure                                     | 1.3 hPa at 25 °C  |
| <u>Density and/or relative density</u>              |   |
| Density   | 1.02 – 1.03 g/cm <sup>3</sup> at 25 °C                      |
| Relative vapour density                             | 4.63 at 20 °C (air = 1)                                     |
| Particle characteristics                            | not relevant (liquid)                                       |
| <u>Other safety parameters</u>                      |   |
| Oxidising properties                                | none  |
| <b>9.2 Other information</b>                        |   |
| Information with regard to physical hazard classes: | hazard classes acc. to GHS (physical hazards): not relevant |
| Other safety characteristics:                       |   |
| Surface tension                                     | 71.4 mN/m (22 °C) (ECHA)                                    |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### If heated

Vapours may form explosive mixtures with air.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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### 10.3 Possibility of hazardous reactions

**Violent reaction with:** strong oxidiser

### 10.4 Conditions to avoid

Keep away from heat.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification acc. to GHS

This substance does not meet the criteria for classification.

#### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity |          |              |         |        |        |
|----------------|----------|--------------|---------|--------|--------|
| Exposure route | Endpoint | Value        | Species | Method | Source |
| dermal         | LD50     | >5,010 mg/kg | rabbit  |        | ECHA   |
| oral           | LD50     | 14,850 mg/kg | rat     |        | TOXNET |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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### Symptoms related to the physical, chemical and toxicological characteristics

- **If swallowed**

Data are not available.

- **If in eyes**

Data are not available.

- **If inhaled**

Data are not available.

- **If on skin**

Data are not available.

- **Other information**

Health effects are not known. This information is based upon the present state of our knowledge.

### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 12: Ecological information

### 12.1 Toxicity

| Aquatic toxicity (acute) |                       |                       |        |               |
|--------------------------|-----------------------|-----------------------|--------|---------------|
| Endpoint                 | Value                 | Species               | Source | Exposure time |
| LC50                     | $>1,000 \text{ mg/l}$ | fish                  | ECHA   | 96 h          |
| EC50                     | $>100 \text{ mg/l}$   | aquatic invertebrates | ECHA   | 48 h          |
| ErC50                    | $>100 \text{ mg/l}$   | algae                 | ECHA   | 72 h          |

### 12.2 Persistence and degradability

Theoretical Oxygen Demand:  $1.908 \text{ mg/mg}$   
 Theoretical Carbon Dioxide:  $1.968 \text{ mg/mg}$

#### Biodegradation

The substance is readily biodegradable.

| Process of degradability  |                  |      |
|---------------------------|------------------|------|
| Process                   | Degradation rate | Time |
| biotic/abiotic            | 16 %             | 28 d |
| oxygen depletion          | 84.4 %           | 28 d |
| carbon dioxide generation | 64.5 %           | 28 d |
| DOC removal               | 93.4 %           | 28 d |

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.



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|                           |                                      |
|---------------------------|--------------------------------------|
| n-octanol/water (log KOW) | -0.462 (pH value: 6, 21.7 °C) (ECHA) |
|---------------------------|--------------------------------------|

### 12.4 Mobility in soil

|                      |  |
|----------------------|--|
| Henry's law constant | 0.001 Pa m <sup>3</sup> /mol at 12 °C (ECHA) |
|----------------------|--|

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

- |   |   |
|---|---|
| 14.1 UN number                                      | not subject to transport regulations                                  |
| 14.2 UN proper shipping name                        | not assigned  |
| 14.3 Transport hazard class(es)                     | not assigned  |
| 14.4 Packing group                                  | not assigned  |
| 14.5 Environmental hazards                          | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user                   | There is no additional information.                                   |
| 14.7 Transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk.                      |

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### 14.8 Information for each of the UN Model Regulations

#### Transport information National regulations Additional information (UN RTDG)

Not subject to transport regulations. UN RTDG

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

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

There is no additional information.

#### National regulations (Australia)

##### Australian Inventory of Chemical Substances (AICS)

Substance is listed.

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National inventories

| Country | Inventory  | Status                       |
|---------|------------|------------------------------|
| AU      | AIIC       | substance is listed          |
| CA      | DSL        | substance is listed          |
| CN      | IECSC      | substance is listed          |
| EU      | ECSI       | substance is listed          |
| EU      | REACH Reg. | substance is listed          |
| JP      | CSCL-ENCS  | substance is listed          |
| JP      | ISHA-ENCS  | substance is listed          |
| KR      | KECI       | substance is listed          |
| MX      | INSQ       | substance is listed          |
| NZ      | NZIoC      | substance is listed          |
| PH      | PICCS      | substance is listed          |
| TR      | CICR       | substance is listed          |
| TW      | TCSI       | substance is listed          |
| US      | TSCA       | substance is listed (ACTIVE) |
| VN      | NCI        | substance is listed          |

#### Legend

|           |   |
|-----------|---|
| AIIC      | Australian Inventory of Industrial Chemicals                            |
| CICR      | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL       | Domestic Substances List (DSL)  |
| ECSI      | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC     | Inventory of Existing Chemical Substances Produced or Imported in China |

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### Legend

|            |   |
|------------|---|
| INSQ       | National Inventory of Chemical Substances                         |
| ISHA-ENCS  | Inventory of Existing and New Chemical Substances (ISHA-ENCS)     |
| KECI       | Korea Existing Chemicals Inventory                                |
| NCI        | National Chemical Inventory                                       |
| NZIoC      | New Zealand Inventory of Chemicals                                |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances                                       |
| TCSI       | Taiwan Chemical Substance Inventory                               |
| TSCA       | Toxic Substance Control Act                                       |

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value)  | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 2.3     |                           | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes             |
| 15.1    |                           | National inventories:<br>change in the listing (table)   | yes             |

### Abbreviations and acronyms

| Abbr.    | Descriptions of used abbreviations   |
|----------|--|
| CAS      | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| DGR      | Dangerous Goods Regulations (see IATA/DGR)   |
| DNEL     | Derived No-Effect Level  |
| EC50     | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED       | Endocrine disruptor  |
| EINECS   | European Inventory of Existing Commercial Chemical Substances  |
| ELINCS   | European List of Notified Chemical Substances  |
| ErC50    | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |
| GHS      | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  |
| IATA     | International Air Transport Association  |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)   |
| ICAO     | International Civil Aviation Organization  |
| IMDG     | International Maritime Dangerous Goods Code  |
| LC50     | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| LD50     | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval   |
| LEL      | Lower explosion limit (LEL)  |

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| Abbr.   | Descriptions of used abbreviations                    |
|---------|---|
| NLP     | No-Longer Polymer                                     |
| PBT     | Persistent, Bioaccumulative and Toxic                 |
| PNEC    | Predicted No-Effect Concentration                     |
| UEL     | Upper explosion limit (UEL)                           |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB    | Very Persistent and very Bioaccumulative              |

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.