

# SAFETY DATA SHEET



## DIPROPYLENE GLYCOL INDUSTRIAL

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: -           |
| 1.0     | 04/19/2023     | BE111       | Date of first issue: 04/19/2023 |

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### SECTION 1. IDENTIFICATION

|                           |                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trade name                | : DIPROPYLENE GLYCOL INDUSTRIAL                                                                                                                                                             |
| CAS Number:               | : 25265-71-8                                                                                                                                                                                |
| Chemical characterization | : Glycols                                                                                                                                                                                   |
| Chemical name             | : 1,1-Oxydi-2-Propanol                                                                                                                                                                      |
| Synonyms                  | : Dipropylene Glycol, DPG, 2,2-Dihydroxyisopropyl Ether, Methyl-2(Methyl-2) Oxybispropanol                                                                                                  |
| Identified uses           | : Monomer; Intermediate; Functional Fluids                                                                                                                                                  |
| Prohibited uses           | : Cosmetics; Toiletries; Personal care products; Theater fogs; Artificial smoke; Active pharmaceutical ingredient (API); Applications involving human consumption; Pharmaceutical excipient |

#### Company Address

Everchem Specialty Chemicals  
1400 N. Providence Road, Suite 302  
Media, PA 19063

#### Company Telephone

Phone: 484-234-5030  
Fax: 484-234-5037

#### Emergency telephone

CHEMTREC USA 800-424-9300

Website : [www.everchem.com](http://www.everchem.com)

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### SECTION 2. HAZARDS IDENTIFICATION

#### **Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

|                     |                        |
|---------------------|------------------------|
| Substance / Mixture | : Substance            |
| Substance name      | : 1,1-Oxydi-2-Propanol |
| CAS-No.             | : 246-770-3 (EINECS)   |

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### Components

#### SECTION 4. FIRST AID MEASURES

- |                                                             |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                              | : May cause irritation of the eyes, skin and mucous membranes.<br>Always observe self-protection methods<br>Move out of dangerous area.<br>Remove contaminated shoes and clothing.<br>Show this material safety data sheet to the doctor in attendance.                                                       |
| If inhaled                                                  | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.<br>Avoid inhalation of hot vapors or extremely high concentrations of aerosols.<br><br>Remove to fresh air.<br>In the case of inhalation of aerosol/mist consult a physician if necessary.              |
| In case of skin contact                                     | : Wash skin thoroughly with mild soap and water.                                                                                                                                                                                                                                                              |
| In case of eye contact                                      | : Flush eyes with water thoroughly and continuously for 15 minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists, consult a specialist.                                                                                                               |
| If swallowed                                                | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.                                                                                                                                                                                                          |
| Most important symptoms and effects, both acute and delayed | : High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).<br>This product is of low acute toxicity.<br>May cause irritation of the eyes, skin and mucous membranes.<br>Hot vapors may cause lung damage. |
| Notes to physician                                          | : Treat symptomatically.<br>Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.                                                                                                                                                                |

#### SECTION 5. FIRE-FIGHTING MEASURES

- |                              |                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : SMALL FIRE: Use dry chemicals, CO <sub>2</sub> , water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam. |
| Unsuitable extinguishing     | : Do not use solid water stream.                                                                                                                            |

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media

- Specific hazards during fire fighting : Heat from fire can generate flammable vapor.  
When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined.  
Vapors may be heavier than air.  
May travel long distances along the ground before igniting and flashing back to vapor source.  
Fine sprays/mists may be combustible at temperatures below normal flash point.  
Fight fire from a safe distance/protected location.  
Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries.  
Use water spray/fog for cooling.  
Avoid frothing/steam explosion.  
Burning liquid may float on water.  
Although water soluble, may not be practical to extinguish fire by water dilution.  
Notify authorities immediately if liquid enters sewer/public waters.
- Special protective equipment for fire-fighters : Wear positive pressure self-contained breathing apparatus (SCBA).  
Structural firefighter's protective clothing will only provide limited protection.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Clean-up to be performed only by trained and properly equipped personnel.
- Environmental precautions : Try to prevent the material from entering drains or water courses.
- Methods and materials for containment and cleaning up : Extinguish all ignition sources.  
Stop release; prevent flow to sewers/public waters.  
Notify fire and environmental authorities.  
Impound/recover large land spill; soak up small spill with inert solids.  
Soak up small spills with inert solids.  
Use suitable disposal containers.  
On water, material is soluble and may float or sink.  
Contain/collect rapidly to minimize dispersion.  
Disperse residue to reduce aquatic harm.  
Report per regulatory requirements.

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against : Normal measures for preventive fire protection.

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fire and explosion

Advice on safe handling : Handle empty containers with care - residue can burn if heated.  
Empty containers should be thoroughly rinsed with copious amounts of clean water.  
The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded.

Conditions for safe storage : Keep container tightly closed when not in use.  
Protect from moisture.  
Store away from heat.  
Material can attack some forms of plastics.  
Do not store together with oxidizing and self-igniting products.

Materials to avoid : Carbon/Mild steel with suitable internal coating, or stainless steel

Further information on storage stability : No decomposition if stored and applied as directed.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Engineering measures : No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.

#### Personal protective equipment

Respiratory protection : No special respiratory protection is recommended under anticipated conditions of normal use with adequate ventilation.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks : Not normally considered a skin hazard. Use chemical resistant gloves appropriate to conditions of use. Wear chemical resistant gloves such as: Nitrile rubber Latex

Eye protection : Safety glasses with side-shields  
Use splash goggles when eye contact due to splashing or spraying liquid is possible.

Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of anticipated use.  
Where use can result in skin contact, practice good personal hygiene.

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Hygiene measures : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Use good personal hygiene practices.

Wash hands before eating, drinking, smoking, or using toilet facilities.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                                  |                                               |
|--------------------------------------------------|-----------------------------------------------|
| Appearance                                       | : liquid (68 °F / 20 °C)                      |
| Color                                            | : clear                                       |
| Odor                                             | : odorless                                    |
| Odor Threshold                                   | : Not applicable                              |
| pH                                               | : 7.4<br>(as aqueous solution)                |
| Melting point/range                              | : < -4 °F / -20 °C                            |
| Boiling point/boiling range                      | : 441 °F / 227 °C<br>(983.60 hPa)             |
| Flash point                                      | : 262 - 270 °F / 128 - 132 °C<br>(988.80 hPa) |
| Flammability (solid, gas)                        | : Not applicable                              |
| Self-ignition                                    | : 630 °F / 332 °C<br>98.96 - 100.18 kPa       |
| Upper explosion limit / Upper flammability limit | : No Data Available.                          |
| Lower explosion limit / Lower flammability limit | : No Data Available.                          |
| Vapor pressure                                   | : 0.013 hPa (77 °F / 25 °C)                   |

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|                                        |   |                                                                                  |
|----------------------------------------|---|----------------------------------------------------------------------------------|
| Relative vapor density                 | : | ~ 4.6<br>(Air = 1.0 at 15 - 20°C/59 - 68°F)                                      |
| Density                                | : | 1.02 g/cm <sup>3</sup> (68 °F / 20 °C)                                           |
| Solubility(ies)<br>Water solubility    | : | Miscible in water.                                                               |
| Partition coefficient: n-octanol/water | : | log Pow: -0.462 (71.1 °F / 21.7 °C)<br>pH: 6                                     |
| Decomposition temperature              | : | Thermal decomposition may produce carbon monoxide and other toxic vapors.        |
| Viscosity<br>Viscosity, kinematic      | : | 118 mm <sup>2</sup> /s (68 °F / 20 °C)<br>32 mm <sup>2</sup> /s (104 °F / 40 °C) |
| Explosive properties                   | : | Not explosive                                                                    |
| Oxidizing properties                   | : | The substance or mixture is not classified as oxidizing.                         |
| Surface tension                        | : | 71.4 mN/m, 1.01 g/l, 72 °F / 22 °C                                               |
| Molecular weight                       | : | 134.17 g/mol                                                                     |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |                                                                                     |
|------------------------------------|---|-------------------------------------------------------------------------------------|
| Reactivity                         | : | Stable under recommended storage conditions.                                        |
| Chemical stability                 | : | Stable under recommended storage conditions.                                        |
| Possibility of hazardous reactions | : | Not expected to occur.<br>This material is stable when properly handled and stored. |
| Conditions to avoid                | : | High temperatures, oxidizing conditions.                                            |
| Incompatible materials             | : | Strong acids<br>Isocyanates.<br>Strong oxidizing agents.                            |
| Hazardous decomposition products   | : | Carbon Monoxide and other toxic vapors.                                             |

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### SECTION 11. TOXICOLOGICAL INFORMATION

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Comply with federal, state, or local regulations for disposal.  
Landfill solids at permitted sites.  
Burn concentrated liquids, diluting with clean, low viscosity fuel.  
Avoid flameouts and assure that emissions comply with all applicable standards/regulations.  
Dilute aqueous waste may biodegrade.  
Assure effluent complies with applicable regulations.

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### SECTION 14. TRANSPORT INFORMATION

Not regulated for transport

**BLG (MARPOL Annex II)**

|                          |                      |
|--------------------------|----------------------|
| Description of the goods | : DIPROPYLENE GLYCOL |
| Pollution category       | : Z                  |
| Ship type                | : 3                  |

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### SECTION 15. REGULATORY INFORMATION

**TSCA 12b**

No substances are subject to TSCA 12(b) export notification requirements.

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### Significant New Use Rules (SNUR)

No substances are subject to a Significant New Use Rule.

### SARA 302/304

This product contains no known chemicals regulated under SARA 302/304.

### SARA 311/312

Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

### SARA 313

This product contains no known chemicals regulated under SARA 313.

### State Reporting

This material does not contain listed substance(s) known to the State of California to cause cancer, birth defects, or other reproductive harm that would require warning under the California Proposition 65 State Drinking Water and Toxic Enforcement Act.  
However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

### Other international regulations

#### Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

| Country/Region           | Inventory | Status Description        |
|--------------------------|-----------|---------------------------|
| Australia                | AICS      | Listed                    |
| Canada                   | DSL       | Listed                    |
| China                    | IECSC     | Listed                    |
| Europe                   | REACH     | See Compliance Statement* |
| Japan                    | ENCS      | Listed                    |
| Korea                    | K REACH   | Pre-registration period * |
| New Zealand              | NZIoC     | Listed                    |
| Philippines              | PICCS     | Listed                    |
| United Kingdom           | UK REACH  | See Compliance Statement* |
| United States of America | TSCA      | Listed                    |
| Taiwan                   | TCSCA     | Listed                    |

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|        |       |                           |
|--------|-------|---------------------------|
| Turkey | KKDIK | Pre-registration period * |
|--------|-------|---------------------------|

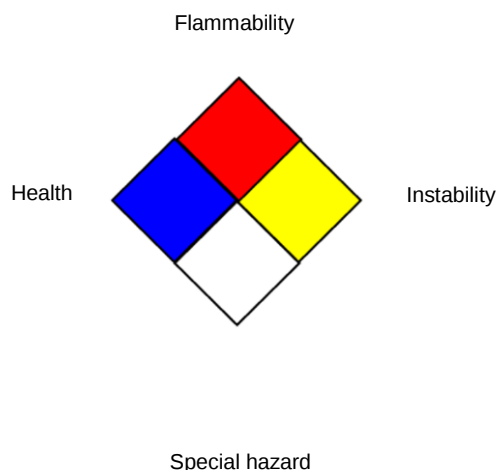
\* If the product has been purchased domestically from the notifying/registering legal entity of the LyondellBasell group of companies. We confirm that all substances (in this preparation) have been registered in accordance with the deadlines set forth in the applicable regulation. During the "Pre-registration period", we confirm that all substances in this preparation have been pre-registered or, where required under the regulation, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in the regulation. For more information, please contact reach@lyondellbasell.com.

† For more information on the status of this material, please contact chemical control at global.chemical.control@lyondellbasell.com.

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:

|                 |  |  |
|-----------------|--|--|
| HEALTH          |  |  |
| FLAMMABILITY    |  |  |
| PHYSICAL HAZARD |  |  |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Har-

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monized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04/19/2023

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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