SAFETY DATA SHEET

Dipropyleneglycol

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

Date of issue	:	2022-06-17
Date of revision	:	2017-12-01
Version	:	7.0

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

1.1. Product identifier

Product name	:	Dipropyleneglycol
Chemical name	:	Oxydipropanol
EC number	:	246-770-3
CAS number	:	25265-71-8
INCI Name	:	Not available/not applicable
REACH Registration number	:	01-2119456811-38
Other means of identification	:	2,2'-dihydroxyisopropylether; 1,1'oxydipropane-2-ol
Chemical formula	:	$C_6H_{14}O_3$

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

Main use category	:	Industrial uses,Professional uses,Consumer use
Use of the substance/mixture	:	Manufacture of substance Use as an intermediate Distribution Formulation & (re)packing of substances and mixtures Uses in coatings Use in cleaning agents Functional fluids De-icing and anti-icing applications Uses in cosmetics/personal care products, perfumes and fragrances Laboratory use Lubricants Metal working fluids / rolling oils Use as binders and release agents Water treatment chemicals Manufacture of chemicals/resins/polymers Use in polymer processing Fuel additive Use in agrochemicals
Uses advised against	:	No additional information available

1.3. Details of the supplier of the safety data sheet

Name	:	GLI-THERM Sp. z o.o.
Address	:	st. Rozwojowa 11, 44-338 Jastrzębie-Zdrój Poland
Regon	:	242850136

NIP/Tax No	:	6423178990
Telephone	:	+48 733 525 533
E-mail	:	sandra.stachowicz@gli therm.eu
Website address	:	www.glitherm.eu

1.4. Emergency telephone number

National advisory body/Poison Center:

Ireland	:	National Poisons Information Centre Emergency number: +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
United Kingdom	:	National Poisons Information Service (Newcastle Centre) Emergency number: 0844 892 0111 (UK only, 24/7, healthcare professionals only)
Poland	:	Szpital Praski p.w. Przemienienia Pańskiego Sp. z o.o. Emergency number: +48 22 619 66 54 +48 22 619 08 97
Germany	:	Vergiftungs-Informations-Zentrale Freiburg Emergency number: +49 (0) 761 19240
24 Hour Emergency Telephone	:	+(44)-8708200418 CHEMTREC

Supplier

Telephone number	:	+48 733 525 533

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition	:	Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified

Acute Tox. 4	:	Not classified

2.2. Label elements

Not classified

2.3. Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Other hazards which do not result in classification : Not applicable

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substance

Mono-constituent substance

Substance	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
Dipropylene glycol	(CAS-No.) 25265-71-8 (EC-No.) 246-770-3 (REACH-no) 01-2119456811-38-XXXX	> 99	Not classified	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.
Type:
[A] Constituent
[B] Impurity
[C] Stabilizing additive
Occupational exposure limits, if available, are listed in Section 8.

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.

Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth thoroughly with water. Get medical advice/attention.

Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.

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

Eye contact	:	The following symptoms may occur: Redness.
Inhalation	:	The following symptoms may occur: At high concentrations: Dry throat. Sore throat. Cough. Dizziness. Headache.
Skin contact	:	The following symptoms may occur: Redness.
Ingestion	:	The following symptoms may occur: Vomiting. Nausea.

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

Notes to physician	:	Treat symptomatically.
Specific treatments	:	Not applicable

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	:	Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	:	Not flammable. Heating will cause a rise in pressure with a risk of bursting.
Hazardous decomposition products in case of fire	:	Carbon oxides (CO, CO2).

5.3 Advice for firefighters

Firefighting instructions	:	Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	:	Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment.

Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Clean contaminated surfaces with an excess of water.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8.
Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. After use replace the closing cap immediately.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities.

Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with

any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage. Protect from moisture.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep container tight closed.

Packaging materials : Keep only in the original container. Suitable material: Glass. Unsuitable material: zinc.

7.3. Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

8.1. Control parameters

Germany	Occupational exposure limit value (mg/m3) (TRGS900)	100 mg/m3 (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Slovenia	OEL TWA	100 mg/m3 (inhalable fraction)
Slovenia	OEL STEL	200 mg/m3 (inhalable fraction)
Switzerland	MAK (OEL TWA) [1]	140 mg/m3 (aerosol, inhalable dust, vapour)
Switzerland	KZGW (OEL STEL)	280 mg/m3 (aerosol, inhalable dust, vapour)

DNEL/DMEL (workers)

Long-term - systemic effects, dermal : 84 mg/kg bodyweight/day

Long-term - systemic effects, inhalation : 238 mg/m3

DNEL/DMEL (general population)

Long-term - systemic effects,oral : 24 mg/kg bodyweight/day

Long-term - systemic effects, inhalation : 70 mg/m3

Long-term - systemic effects, dermal : 51 mg/kg bodyweight/day

PNEC (water)

PNEC aqua (freshwater)	:	0,1 mg/l
PNEC aqua (marine water)	:	0,01 mg/l
PNEC aqua (intermittent, freshwater)	:	1 mg/l

PNEC (sediment)

PNEC sediment (freshwater)	:	0,238 mg/kg dwt
PNEC sediment (marine water)	:	0,0238 mg/kg dwt

PNEC (soil)

PNEC soil	:	0,0253 mg/kg dwt

PNEC (Oral)

PNEC oral (secondary poisoning)	:	313 mg/kg food

PNEC (STP)

PNEC sewage treatment plant	:	1000 mg/l
Additional information	:	Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s)	:	Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling.

Individual protection measures

Personal protective equipment	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Eye/face protection	:	Not required for normal conditions of use. Use splash goggles when eye contact due to splashing is possible (EN 166)
Hand protection	:	Wear chemically resistant gloves (tested to EN374) . Suitable material: Butyl rubber. NBR (Nitrile rubber). Breakthrough time : >8h. Thickness > 0,3 mm. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Body protection	:	Wear suitable protective clothing
Thermal hazard protection	:	Not required for normal conditions of use. Use dedicated equipment.
Respiratory protection	:	Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: A (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

Environmental exposure controls	:	Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	clear. Colourless.
Odor	:	Alcohol. Very slight. odorless.
Odor threshold	:	No data available
pH	:	7-8
pH solution	:	5 %
Initial boiling point and boiling range	:	227 °C
Melting point/freezing point	:	< -20°C
Flash point	:	130 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable,liquid
Explosive limits	:	No data available
Vapor pressure	:	0,013 hPa (25 °C)
Vapor density	:	4,6
Density	:	1025 kg/m3
Relative density	:	1,02 (20 °C)
Solubility(ies)	:	Water: completely soluble
Partition coefficient n-octanol/water	:	-0,462
Kinematic viscosity	:	118 mm2/s (20 °C)
Dynamic viscosity	:	0,12 Pa·s (20 °C)
Auto-ignition temperature	:	332 °C
Decomposition temperature	:	No data available

9.2. Other information

Explosive properties	:	Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidizing properties	:	Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Additional information	:	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts violently with oxidizing substances.

10.4. Conditions to avoid

Prevent moisture contact. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

Oxidising substances. Moisture. zinc. See Section 7 for information on safe handling.Brak dostępnych dalszych istotnych danych.

10.6 Hazardous decomposition products

Hazardous decomposition products. Carbon oxides. Reference to other sections 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified (Based on available data, the classification criteria are not met)

Oral	:	LD50	> 5000 mg/kg (OECD 401 method) (Rat)
Skin	:	LD50	> 5010 mg/kg (OECD 402 method) (Rabbit)
Inhalation/4h		LC50	2,35 mg/l (OECD 403 method) (Rat)

Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 7 – 8
Serious eye damage/eye irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 7 – 8
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenic	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity - single exposure	:	Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity - repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)
Adverse health effects caused by endocrine disrupting properties	:	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
Other information	:	Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties	:	According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".
Hazardous to the aquatic environment, short-term (acute)	:	Not classified
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified
LC50 - Fish [1]	:	> 1000 mg/l (Oryzias latipes OECD 203)
LC50 - Other aquatic organisms [1]	:	3181 mg/l Xenopus laevis
EC50 - Crustacea [1]	:	> 100 mg/l (Daphnia magna OECD202)
EC50 72h - Algae [1]	:	> 100 mg/l (Desmodesmus subspicatus OECD 201)
ErC50 algae	:	> 100 mg/l (Desmodesmus subspicatus OECD 201)

12.2 Persistence and degradability

Persistence and degradability	:	Readily biodegradable; readily degradable in water.
Biodegradation	:	93,4 % OECD 301F 23,6 % OECD 306:

12.3 Bioaccumulative potential

Bioaccumulative potential	:	No additional information available.
BCF - Fish [1]	:	0,3 – 1,4
Partition coefficient n-octanol/water	:	-0.462 (at 21.7 °C (at pH 6)

12.4 Mobility in soil

Mobility in soil	:	No data available
Ecology - soil	:	Not expected to adsorb on soil.

12.5 Results of PBT and vPvB assessment

PBT	:	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
vPvB	:	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties	:	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7 Other adverse effects

Other adverse effects	:	No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	:	Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.
European waste catalogue (EWC)	:	Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities The following Waste Codes are only suggestions:

Waste code	:	**Waste designation**
150110*	:	packaging containing residues of or contaminated by dangerous substances
07 01 04*	:	other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

	ADR/RID	ADNR/ADN	IMDG	IATA
14.1. UN Number	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN Proper Shipping Name	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport Hazard Class(es)	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing Group	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental Hazards	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
14.6. Special Precautions for users	No data available	No data available	No data available	No data available

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

Code: IBC : No data available.

SECTION 15: Regulatory information

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

No REACH Annex XVII restrictions
Dipropyleneglycol is not on the REACH Candidate List
Dipropyleneglycol is not on the REACH Annex XIV List

15.2 Chemical Safety Assessment:

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

The data is confirmed based on the state of our knowledge, but does not determine how the production properties and cannot be used to justify legally binding contracts.

Abbreviations and acronyms

REACH : Registration, Evaluation, Authorisation and Restriction of Chemical

MARPOL : (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

N/A : Not applicable
N/D : Not determined
NE : Not established
VOC : Volatile Organic Compound

AICS : Australian Inventory of Chemical Substances

AIHA WEEL	:	American Industrial Hygiene Association Workplace Environmental Exposure Limits
DSL	:	Domestic Substance List (Canada)
ELINCS	:	European List of Notified Chemical Substances
ENCS	:	Existing and new Chemical Substances (Japanese inventory)
IECSC	:	Inventory of Existing Chemical Substances in China
KECI	:	Korean Existing Chemicals Inventory
NDSL	:	Non-Domestic Substances List (Canada)
NZIoC	:	New Zealand Inventory of Chemicals
PICCS	:	Philippine Inventory of Chemicals and Chemical Substances
TLV	:	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	:	Toxic Substances Control Act (U.S. inventory)
UVCB	:	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
IBC Code	:	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN	:	United Nations (also UNO: United Nations Organization)
NOEC	:	No Observed Effect Concentration
NOELR	:	No Observable Effect Loading Rate
OECD	:	Organization for Economic Co-operation and Development
ASTM	:	American Society for Testing and Materials
WAF	:	Water Accommodated Fraction
ADR	:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG	:	International Maritime Code for Dangerous Goods
IATA	:	International Air Transport Association
GHS	:	Globally Harmonised System of Classification and Labeling of Chemicals
EINECS	:	European Inventory of Existing Commercial Chemical Substances
CAS	:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL	:	Derived No-Effect Level (REACH)
PNEC	:	Predicted No-Effect Concentration (REACH)
LC	:	Lethal Concentration
LD	:	Lethal Dose
LL	:	Lethal Loading
EC	:	Effective Concentration
EL	:	Effective Loading
LC50	:	Lethal concentration, 50 percent
LD50	:	Lethal dose, 50 percent
PBT	:	Persistent, Bioaccumulative and Toxic
vPvB	:	very Persistent and very Bioaccumulative

Acute Tox, 4	:	Acute toxicity - Category 4
Notice to reader	:	The information contained herein is accurate to the latest knowledge and describes the product from the point of view of help and environmental protection as well as safe handling. The information presented in this SDS refers to the technical product only and will not apply to any processed product. Final determination of the suitability of any materials for the chosen application(s) is the sole responsibility of the user"