

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



TRIPROPYLENE GLYCOL, BULK

Version 1.4 Revision Date: 01/10/2023 SDS Number: BE116 Date of last issue: 10/24/2019
Date of first issue: 03/02/2015

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

1.1 Product identifier

Trade name : TRIPROPYLENE GLYCOL
Synonyms : TPG, ((1-Methyl-1,2-Ethanediy) Bis (Oxy)) Bispropanol
Substance name : Tripropylene Glycol
Substance No. : 246-466-0
Chemical characterization : Glycols

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

Identified uses : Intermediate; Functional Fluids

Prohibited uses : Theater fogs; Artificial smoke

1.3 Details of the supplier of the safety data sheet

Company	Registration number	Telephone
Lyondell Chimie France S.A.S. Zone Industrielle Portuaire 13270 Fos sur Mer France	01-2119456808-25-0001	+31 10 275 5770
Lyondell Chemie Nederland, B.V. Delftseplein 27E 3013 AA Rotterdam Netherlands	01-2119456808-25-0000	31 (0) 10 275 55 00

E-mail address : product.safety@lyb.com
Responsible/issuing person

1.4 Emergency telephone number

Lyondell Chimie France S.A.S. +32 3 575 1235
Lyondell Chemie Nederland, B.V. +32 3 575 1235

Poison Center:

Giftnotruf der Charité
DE: +49 30 19240
24 hours all days

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Tripropylene Glycol

EC-No. : 246-466-0

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Tripropylene Glycol	24800-44-0 246-466-0	>= 99	

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Always observe self-protection methods
Move out of dangerous area.
Remove contaminated shoes and clothing.
Show this material safety data sheet to the doctor in attendance.

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- If inhaled : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Avoid inhalation of hot vapors or extremely high concentrations of aerosols.
- Remove to fresh air.
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.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).
- Risks : This product is of low acute toxicity.
May cause irritation of the eyes, skin and mucous membranes.
Hot vapors may cause lung damage.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : SMALL FIRE: Use dry chemicals, CO₂, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.
- Unsuitable extinguishing media : Do not use solid water stream.

5.2 Special hazards arising from the substance or mixture

- 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.

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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.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Clean-up to be performed only by trained and properly equipped personnel.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

6.3 Methods and material for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : 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.
- Advice on common storage : Carbon/Mild steel with suitable internal coating, or stainless steel
- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : See Section 1.2. Development of Exposure Scenarios for such use are not required by the REACH Regulation other than what is provided in other sections of this SDS.

No use-specific Risk Management Measures are proposed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

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Substance name	End Use	Exposure routes	Potential health effects	Value
Tripropylene Glycol	Workers	Skin contact	Long term	121 mg/kg bw/day
	Remarks: Systemic effects			
	Workers	Inhalation	Long term	340 mg/m ³
	Remarks: Systemic effects			
	General Population	Skin contact	Long term	72 mg/kg bw/day
	Remarks: Systemic effects			
	General Population	Inhalation	Long term	101 mg/m ³
	Remarks: Systemic effects			
	General Population	Ingestion	Long term	34 mg/kg bw/day
	Remarks: Systemic effects			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Tripropylene Glycol	Fresh water	20 mg/l
	Sea water	2 mg/l
	Water	10 mg/l
	Remarks: Intermittent Releases	
	Fresh water sediment	48.1 mg/kg
	Sea sediment	4.81 mg/kg
	Soil	5.3 mg/kg
	Sewage Treatment Plant	500 mg/l
	Oral	449 mg/kg

8.2 Exposure controls

Engineering measures

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

Personal protective equipment

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

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 Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

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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Respiratory protection : No personal respiratory protective equipment normally required.
In an emergency, use supplied air or a self contained breathing apparatus containing air, operated in positive pressure mode which has been recommended or approved by an appropriate agency.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid (20 °C, 1,013.25 hPa)
Color	:	clear
Odor	:	Little or no odor.
Odor Threshold	:	No value available.
Melting point/range	:	< -20 °C
Boiling point/boiling range	:	270 °C (1004.70 hPa)
Flammability	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No Data Available.
Lower explosion limit / Lower flammability limit	:	No Data Available.
Flash point	:	145 °C(1001.10 hPa)
Decomposition temperature	:	Thermal decomposition may produce carbon monoxide and other toxic vapors.
Viscosity	:	
Viscosity, kinematic	:	77.3 mm ² /s (20 °C) 23.4 mm ² /s (40 °C)
Solubility(ies)	:	
Water solubility	:	(20 °C) pH: 7.1 - 8.4 Miscible in water.
Partition coefficient: n-octanol/water	:	log Pow: -0.379 (21.5 °C) pH: 5.9
Vapor pressure	:	0.0026 hPa (25 °C)
Density	:	1.02 g/cm ³ (20 °C)

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9.2 Other information

Explosives : No Data Available.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : 232 °C
101.08 - 102.33 kPa

Surface tension : 70.3 mN/m, 1.02 g/l, 19.8 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : This material is stable when properly handled and stored.

10.4 Conditions to avoid

Conditions to avoid : High temperatures, oxidizing conditions.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents.
Strong acids.
Isocyanates.

10.6 Hazardous decomposition products

Combustion may produce oxides of carbon and other toxic gases.

SECTION 11: Toxicological information

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

Acute toxicity

Components:

Trippropylene Glycol:

Acute oral toxicity : Remarks: Based on acute toxicity values, not classified.

Remarks: Ingestion of high doses may cause discomfort and irritation of the gastrointestinal tract and CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).

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LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : Remarks: Based on acute toxicity values, not classified.

Remarks: Vapors may cause irritation of the eyes, nose and throat as well as CNS depression (fatigue, dizziness, loss of concentration, with collapse, coma and death possible in cases of severe overexposure). High vapor concentrations may be irritating to the upper respiratory tract.

LC50 (Rat): > 0.083 mg/l
Exposure time: 8 HOURS

Acute dermal toxicity : LD50 (Rabbit): > 16,320 mg/kg

Skin corrosion/irritation

Components:

Tripropylene Glycol:

Remarks : Based on skin irritation values, not classified.

Remarks : May cause slight transient skin irritation.

Serious eye damage/eye irritation

Components:

Tripropylene Glycol:

Remarks : Based on eye irritation values, not classified.

Remarks : May cause slight transient eye irritation.

Respiratory or skin sensitization

Components:

Tripropylene Glycol:

Test Type : Skin sensitization
Remarks : Not classified
No adverse effect observed.

Test Type : Respiratory sensitization
Remarks : Not classified
No study available.

Germ cell mutagenicity

Components:

Tripropylene Glycol:

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Germ cell mutagenicity- Assessment : Not classified, No adverse effect observed.

Carcinogenicity

Components:

Tripropylene Glycol:

Carcinogenicity - Assessment : Not classified, No adverse effect observed.

Reproductive toxicity

Components:

Tripropylene Glycol:

Reproductive toxicity - Assessment : Not classified, No adverse effect observed.

STOT-single exposure

Components:

Tripropylene Glycol:

Assessment : Based on single exposure toxicity values, not classified.

STOT-repeated exposure

Components:

Tripropylene Glycol:

Assessment : Based on repeated exposure toxicity values, not classified.

Aspiration toxicity

Components:

Tripropylene Glycol:

Based on physico-chemical values or lack of human evidence, not classified.

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 : no data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Based on acute aquatic toxicity values, not classified.
Chronic aquatic toxicity : Not classified, based on readily biodegradability and low acute toxicity.

Components:

Trippropylene Glycol:

Toxicity to fish : Remarks: Low acute toxicity to fish
LC50 (Oryzias latipes (Orange-red killifish)): > 1,000 mg/l
Exposure time: 96 HOUR

Toxicity to daphnia and other aquatic invertebrates : Remarks: Low acute toxicity to aquatic invertebrates.
EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 24 HOUR

Toxicity to algae/aquatic plants : Remarks: Low toxicity to algae.
EC50 (Pseudokirchneriella subcapita (formerly Selenastrum capricornutum)): > 1,000 mg/l
Exposure time: 72 HOUR

Toxicity to microorganisms : Remarks: Low toxicity to sewage treatment plant microbes expected.
NOEC (Activated sludge): 1,000 mg/l
Exposure time: 3 HOUR

Toxicity to fish (Chronic toxicity) : Remarks: Low chronic toxicity to fish.
Chronic Toxicity Value: 1,631 mg/l
Exposure time: 30 d
Remarks: QSAR (Quantitative structure-activity relationship)

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based calculation predicts low chronic toxicity.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Low chronic toxicity to aquatic invertebrates.

NOEC: 1,000 mg/l
Exposure time: 21 d
Species: Daphnia magna.

12.2 Persistence and degradability

Components:

Tripropylene Glycol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: ~ 60 - 92 %

12.3 Bioaccumulative potential

Components:

Tripropylene Glycol:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 5.7
Remarks: This material is not expected to bioaccumulate.

Remarks: This material is highly soluble in water and should not bioaccumulate in aquatic or terrestrial organisms.

Partition coefficient: n-octanol/water : log Pow: -0.379 (21.5 °C)
pH: 5.9

12.4 Mobility in soil

Components:

Tripropylene Glycol:

Distribution among environmental compartments : Stability in soil
log Koc: 5.75
Remarks: Low absorption to soil particulates predicted (QSAR calculated value)

Stability in water
Remarks: Not expected to hydrolyse in water.
Stable at pH 4, 7 and 9 @ 25C

Remarks: Volatilization from water or soil surfaces is expected to be limited.
Initially partitioning mainly to water and air.

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Tripropylene Glycol:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 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.

12.7 Other adverse effects

Product:

Environmental fate and pathways : No additional information available.

Additional ecological information : No additional information available.

Components:

Tripropylene Glycol:

Environmental fate and pathways : No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Comply with federal, state, or local regulations for disposal.

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SECTION 14: Transport information

14.1 UN number

Not regulated for transport

14.2 UN proper shipping name

Not regulated for transport

14.3 Transport hazard class(es)

Not regulated for transport

14.4 Packing group

Not regulated for transport

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

No special precautions required.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

Water hazard class (Germany) : WGK 1 slightly hazardous to water

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

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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
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.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of other abbreviations

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 popula-

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tion; 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

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.

DE / EN