We create chemistry

Safety Data Sheet
DIPROPYLENGLYCOL

1. Identification

Product identifier used on the label

DIPROPYLENGLYCOL

Recommended use of the chemical and restriction on use

Recommended use*: Chemical, antifreezing agent, Intermediate, adjuvant, solvent(s)
Recommended use*: Chemical; antifreezing agent; Intermediate; solvent(s); adjuvant
Unsuitable for use: Not intended for sale to or use by the general public.

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF de Costa Rica S.A.
Centro Corp. Plaza Roble,Terrazas, Regus,
5to piso,10210, San Rafael, Escazú
San José, COSTA RICA

Telephone: +506 4082-4290

Emergency telephone number

24 Hour Emergency Response Information
CHEMTREC: +506 4000 3869 (Local) o +52 55 8526 4930 (Regional)
Centro Nacional de Control de Intoxicaciones: 506 2223-1028 /222-0122/ 911

Other means of identification

Chemical family: organic compounds

2. Hazards Identification

According to Executive Decree No. 40457-S

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Executive Decree No. 40457-S

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air.

If on skin:
Wash thoroughly with soap and water

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:
Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, alcohol-resistant foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
Cool endangered containers with water-spray.

Advice for fire-fighters
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions
Discharge into the environment must be avoided.

Methods and material for containment and cleaning up
For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling
Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:
Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities
Unsuitable materials for containers: zinc

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from air. Protect from atmospheric humidity. Protect contents from the effects of light.

Storage stability:
Storage temperature: <= 40 °C
The stated storage temperature should be noted.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Advice on system design:
Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:
Chemical resistant protective gloves should be worn to prevent all skin contact., Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:
Safety glasses with side-shields.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

9. Physical and Chemical Properties

Physical state:	liquid	
Form:	liquid	
Odour:	odourless	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	5.0 - 7.5 (500 g/kg, 20 °C)	(internal method)
Melting point:	-39 °C Literature data.	(other)
Freezing point:	No data available.	
Boiling range:	228 - 236 °C (1,013 hPa) Literature data.	(other)
boiling temperature:	227 °C (983.6 hPa)	(Directive 92/69/EEC, A.2)
Flash point:	130 °C	(Directive 92/69/EEC, A.9, closed cup)
Flammability:	not readily ignited	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	

Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	332 °C	(Directive 92/69/EEC, A.15)
Vapour pressure:	0.0128 hPa (20 °C) Literature data.	(measured)
Density:	1.02 g/cm3 (20 °C) Literature data.	
Relative density:	1.02 (20 °C)	(Directive 92/69/EEC, A.3)
Relative vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	-0.462 (21.7 °C)	(Directive 92/69/EEC, A.8)
Refractive index:	1.440 - 1.443 (20 °C)	(DIN 51423-2 (n2D20))
Self-ignition temperature:	20 °C not self-igniting	
Thermal decomposition:	No decomposition if correctly stored and handled.	
Viscosity, dynamic:	No data available.	
Viscosity, kinematic:	118 mm2/s (20 °C)	(Capilliary viscometer)
Solubility in water:	(20 °C) miscible	
Miscibility with water:	miscible in all proportions	
Solubility (qualitative):	soluble solvent(s): polar solvents,	
Molecular weight:	134.18 g/mol	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

Particle characteristics
Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
not fire-propagating (other)

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
No hazardous reactions when stored and handled according to instructions.

Conditions to avoid
> 40 degrees Celsius
Avoid humidity. Avoid daylight. Disregard of the conditions mentioned may result in undesirable decomposition reactions.

Incompatible materials
zinc

Hazardous decomposition products

Decomposition products:
Possible decomposition products: carbonyl compounds, Dioxolan derivatives

Thermal decomposition:
No decomposition if correctly stored and handled.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Oral
Type of value: LD50
Species: rat (male/female)
Value: > 5,000 mg/kg (similar to OECD guideline 401)
No mortality was observed.

Inhalation
Type of value: LC50
Species: rat (male/female)
Value: > 2.34 mg/l (similar to OECD guideline 403)
Exposure time: 4 h
An aerosol was tested.
No mortality was observed. Highest concentration technically achievable.

Dermal
Type of value: LD50
Species: rabbit
Value: > 5,010 mg/kg
No mortality was observed.

Assessment other acute effects
Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion
Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin
Species: rabbit
Result: non-irritant
Method: OPP 81-5 (EPA-Guideline)

Eye
Species: rabbit
Result: non-irritant
Method: EPA Guideline

Sensitization
Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Buehler test
Species: guinea pig
Result: Non-sensitizing.
Method: similar to OECD guideline 406

Aspiration Hazard
No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: No adverse effects were observed after repeated exposure in animal studies.

Genetic toxicity
Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

Carcinogenicity
Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by drinking-water, a carcinogenic effect was not observed.

Reproductive toxicity
Assessment of reproduction toxicity: No data available. The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish
LC50 (96 h) 46,500 mg/l, Pimephales promelas (OECD 203; ISO 7346; 92/69/EWG, C.1, static)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The details of the toxic effect relate to the nominal concentration.

LC50 (96 h) > 1,000 mg/l, Oryzias latipes (OECD 203; ISO 7346; 92/69/EWG, C.1, semistatic)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Aquatic invertebrates
EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
The details of the toxic effect relate to the nominal concentration.

Aquatic plants
EC50 (72 h) > 100 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201)
The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish
Study scientifically not justified.

Chronic toxicity to aquatic invertebrates
Study scientifically not justified.

Soil living organisms

Toxicity to soil dwelling organisms:
Study does not need to be conducted.

Toxicity to terrestrial plants

Study does not need to be conducted.

Other terrestrial non-mammals
LD50 (14 d) > 2,000 mg/kg, Colinus virginianus (OPP 71-1: (EPA-guideline))

Microorganisms/Effect on activated sludge

Toxicity to microorganisms
aquatic
bacterium/EC10 (18 h): > 1,000 mg/l
The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Assessment biodegradation and elimination (H2O)
Readily biodegradable (according to OECD criteria).

Elimination information

84.4 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerobic, activated sludge, domestic, non-adapted)

23.6 % DOC reduction (64 d) (OECD Guideline 306) (aerobic, aerobic microorganisms)

Assessment of stability in water
According to structural properties, hydrolysis is not expected/probable.

Bioaccumulative potential

Assessment bioaccumulation potential
Does not significantly accumulate in organisms.

Bioaccumulation potential
Bioconcentration factor: 0.3 - 4.6 (42 d), Cyprinus sp. (OECD Guideline 305 C)

Mobility in soil

Assessment transport between environmental compartments
The substance will not evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is not expected.

Additional information

Other ecotoxicological advice:
Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations.

Container disposal:
Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport
TDG

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Not applicable

NFPA Hazard codes:
Health: 1 Fire: 1 Reactivity: 0 Special:

Assessment of the hazard classes according to UN GHS criteria (most recent version):

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2025/04/24

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

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END OF DATA SHEET