

Safety data sheet

Page: 1/6

BASF Safety data sheet according to 91/155/EEC
Date / Revised: 05.12.2002
Product: 1,2-PROPYLENGLYKOL USP

Version: 5.0

(30054515/SDS_COS_EU/EN)

Date of print 06.12.2002

1. Substance/preparation and company identification**1,2-PROPYLENGLYKOL USP**

Use: Chemical

Company:

BASF Aktiengesellschaft - D-67056 Ludwigshafen
Germany

Contact address:

BASF Aktiengesellschaft
Unternehmensbereich Petrochemikalien
67056 Ludwigshafen, Deutschland
Telephone: +49-621-60-45045
Telefax number: +49-621-60-45814
E-mail address: petrochemical.safety@basf-ag.de

Emergency information:

Fire brigade BASF Ludwigshafen
Telephone: 0621-60-43333
Telefax number: 0621-60-92664

2. Composition/information on ingredientsChemical nature

INCI Name: Propylene Glycol

propane-1,2-diol

CAS Number: 57-55-6
EG-Number: 200-338-0

3. Hazard identification

No particular hazards known.

4. First-aid measures

General advice:

Remove contaminated clothing.

BASF Safety data sheet according to 91/155/EEC

Date / Revised: 05.12.2002

Product: 1,2-PROPYLENGLYKOL USP

Version: 5.0

(30054515/SDS_COS_EU/EN)

Date of print 06.12.2002

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

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

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

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

5. Fire-fighting measures

Suitable extinguishing media:

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

Special protective equipment:

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:

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:

Do not empty into drains.

Methods for cleaning up or taking 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

Handling

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

Suitable materials for containers: aluminum, Stainless steel 1.4439

Unsuitable materials for containers: zinc

BASF Safety data sheet according to 91/155/EEC

Date / Revised: 05.12.2002

Version: 5.0

Product: 1,2-PROPYLENGLYKOL USP

(30054515/SDS_COS_EU/EN)

Date of print 06.12.2002

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 and personal protection

Personal protective equipment

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance to EN 374.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

Body protection:

light protective clothing

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: liquid
 Colour: colourless
 Odour: almost odourless

Melting point: -60 °C
 Boiling range: 186 - 190 °C
 (1.013 mbar)

Flash point: 103 °C (DIN 51758)
 Lower explosion limit: 2,6 %(V)
 Upper explosion limit: 12,6 %(V)
 Ignition temperature: 410 °C (DIN 51794)

Vapour pressure: 0,186 mbar
 (20 °C)
 1,75 mbar
 (50 °C)

BASF Safety data sheet according to 91/155/EEC

Date / Revised: 05.12.2002

Product: 1,2-PROPYLENGLYKOL USP

Version: 5.0

(30054515/SDS_COS_EU/EN)

Date of print 06.12.2002

Density: 1,036 g/cm³ (DIN 51757)
(20 °C)

Solubility in water: fully soluble
(20 °C)

Solubility (qualitative) solvent(s): polar solvents
soluble

Partitioning coefficient n-octanol/water (log Pow): -0,92

Viscosity, dynamic: 60,5 mPa.s
(20 °C)

10. Stability and reactivity

Conditions to avoid:

> 40 °C

Avoid humidity. Avoid daylight. Disregard of the conditions mentioned may result in undesirable decomposition reactions.

Substances to avoid:

zinc, strong oxidizing agents

Hazardous reactions:

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

| Possible degradation products: carbonyl compounds, Dioxolan derivatives

11. Toxicological information

LD50/oral/rat: > 2.000 mg/kg

by inhalation/rat:

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

LD50/dermal/rabbit: > 5.000 mg/kg

Primary skin irritation/rabbit: non-irritant (Draize test)

Primary irritations of the mucous membrane/rabbit: non-irritant
Literature data.

Sensitization/Guinea pig maximization test:
no sensitizing effect

BASF Safety data sheet according to 91/155/EEC

Date / Revised: 05.12.2002

Product: 1,2-PROPYLENGLYKOL USP

Version: 5.0

(30054515/SDS COS EU/EN)

Date of print 06.12.2002

12. Ecological information

Ecotoxicity

Toxicity to fish:

Oncorhynchus mykiss/LC50 (96 h): > 100 mg/l

Aquatic invertebrates:

OPP 72-2 (EPA-guideline)

Daphnia magna/EC50 (48 h): > 100 mg/l

Literature data.

Aquatic plants:

EC50 (72 h): > 100 mg/l

Literature data.

Microorganisms/Effect on activated sludge:

DEV-L2

> 5.000 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and degradability

Elimination information

Test method: OECD 301 A (new version)

Method of analysis: DOC reduction

Degree of elimination: > 70 % (28 d)

Evaluation: Readily biodegradable.

Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packs can be re-used.

BASF Safety data sheet according to 91/155/EEC

Date / Revised: 05.12.2002

Product: 1,2-PROPYLENGLYKOL USP

Version: 5.0

(30054515/SDS_COS_EU/EN)

Date of print 06.12.2002

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport information

Not classified as hazardous under transport regulations.

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EG-Number: 200-338-0

Not subject to labelling in accordance with EEC Directives.

Other regulations

16. Other information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.