

Safety Data sheet

According to Directive 1907/2006

1470 1,2-PROPANEDIOL

Creation Date: 13/01/2017 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 1470 Product name: 1,2-PROPANEDIOL Use of the substance: Analysis and chemical-pharmaceutical production.
REACH registration Nr.: 01-2119456809-23-0000

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006

Labelling in accordance with directive 1272/2008

Classified as not dangerous in accordance with directive 1999/45/CE
Product not dangerous according to Regulation (EC) 1272/2008

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 57-55-6

Molecular Weight: 76,10

Chemical formula: $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{OH}$

EC-No.: 200-338-0

4. First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

After swallowing:

Drink lots of water

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Water

Dust

Foam

Carbon dioxide

Special risks:

Combustible

Steam heavier than air

Possible formation of explosive mixtures with air

Ambient fire may liberate hazardous vapours

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols

Procedures for cleaning/absorption:

To gather with absorbents

To come to the elimination of the remainders

Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 474 mg/m³ or 150 ppm

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Needed

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes

Wash hands when work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Characteristic

pH value: 6-8 (100 g/l H₂O)

Dynamic viscosity: 45 mPa*s

Melting point: -59°C

Boiling point: 187°C

Ignition temperature: 371 °C

Flash point: 107°C

Explosion limits: low: 2,4 Vol% high: 17,4 Vol%

Vapour pressure: 0,11 hPa

Density (g/cm³): 1,038

Solubility: soluble (water)

log P(ow): -0,92

10. Stability and reactivity

Substances to be avoided:

Strong oxidizing agents.

Hazardous decomposition products:

Carbon dioxide.

Carbon monoxide.

Further information:

Hygroscopic.

Forms explosive mixtures with air on intense heating.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 19400-36000 mg/kg; LD50 (dermal, rabbit): 20800mg/kg

After skin contact:

Slight irritation symptoms

Further toxicological information:

Non carcinogenic in animal experiments

No impairment of reproductive performance suspected

No teratogenic effect in animal experiments
No mutagenic effect in animal experiments
The precautions adapted for chemical agents must be observed

12. Ecological information

Fishes: Onchorhynchus mykiss LC50: 51600 mg/l /96 h
Daphnia: Daphnia magna EC50: 34400 mg/l /48 h
Algae: Selenastrum capricornutum IC50: 19000 mg/l /96 h
Bacteria: Photobacterium phosphoreum EC50: 26800 mg/l /30 min
Log P(ow): -0,92
Biodegradability: High
Bioaccumulation: No bioaccumulation is to be expected (log Pow<1):

Other harmful effects:

When used properly, no impairments in the function of waste-water-treatment plants are to be expected
No ecological problems are to be expected when the product is handled and used with due care and attention

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in waste management)

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

Sea transport IMDG

Air transport ICAO-IATA-DGR

15. Regulatory information

16. Other information

The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.