

Material Safety Data Sheet

Product Name: **1,2-propanediol**

Company Name: Shenzhen HonestChem Chemical Co.,Ltd

Address: 20-402,District A.Nanyou.Nanshan.Shenzhen,China

Postcode: 518054

Tel: 0755-26404303

Fax: 0755-26404265

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Safety data for 1,2-propanediol

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of

hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web

sites of many chemical suppliers.

General

Synonyms: 1,2-dihydroxypropane, methylethylene glycol, methyl glycol, propylene glycol, propane-1,2-diol, 1,2-

propylene glycol, alpha-propylene glycol, 1,2(R,S)-propanediol, 2,3-propanediol, 2-hydroxypropanol, DL-1,2-

propanediol, dl-propylene glycol, Dowfrost, isopropylene glycol, methylethyl glycol, monopropylene glycol, PG 12,

Sirlene, solar winter ban, solargard P, Ucar 35

Molecular formula: C₃H₈O₂

CAS No: 57-55-6

EC No: 200-338-0

Physical data

Appearance: viscous colourless liquid

Melting point: -60 C

Boiling point: 187 C

Vapour density: 2.62

Vapour pressure: 0.08 mm Hg at 20 C

Specific gravity: 1.036

Flash point: 107 C

Explosion limits: 2.6% - 12.6%

Autoignition temperature: 415 C

Stability

Stable. Incompatible with acid chlorides, acid anhydrides, oxidizing agents, reducing agents, chloroformates.

Hygroscopic. Combustible.

Toxicology

May be harmful by ingestion, inhalation or through skin contact. May cause skin or eye irritation.

Toxicity data

(The meaning of any abbreviations which appear in this section is given here.)

ORL-RAT LD50 20000 mg kg-1

IPR-RAT LD50 6660 mg kg-1

IMS-RAT LD50 14000 mg kg-1

IVN-RBT LDLO 4200 mg kg-1

Irritation data

(The meaning of any abbreviations which appear in this section is given here.)

SKN-HMN 500 mg/7d mld

Risk phrases

(The meaning of any risk phrases which appear in this section is given here.)

R36 R38.

Personal protection

Safety glasses.

Safety phrases

(The meaning of any safety phrases which appear in this section is given here.)

S26 S36.

References: 1. Safety Management for Chemicals at Working Spot

2. Safety Handbook for Hazardous Goods

3. All-Round Book for Safety Technology Hazardous Chemicals

4. Register Regulation for Hazardous Chemicals

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Writing Account :

Writing according to Rules for Writing MSDS (GB16483-2000).

Others:

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS