

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: 1,3-Propanesultone
Synonyms: 3-Hydroxy-1-propanesulfonic acid gamma-sultone
Catalog number: PI-32116

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

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company identification: PI Chemicals Ltd.
633 Eshan Road,
Pudong New Area, Shanghai China, 201203

Telephone number: +86-21-58953700

Fax number: +86-21-58953701

E-mail address: info@pipharm.com

Emergency telephone number

Emergency number: +86-21-58953706

Section 2 - Hazards Identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008

Skin irritation Category 3

Eye irritation Category 2

Respiratory sensitization Category 1

Acute toxicity, Oral, Dermal Category 4

Carcinogenicity Category 1B

Label elements

Classification according to (EC) No 1272/2008



Signal word: Danger

Hazard statement(s):

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H319: Causes serious eye irritation.

H350: May cause cancer.

Precautionary statement(s)

P201: Obtain special instructions before use.

P280: Wear protective gloves/ protective clothing.

P305 + P351 + P338: **IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**

P308 + P313: **IF exposed or concerned: Get medical advice/ attention**

Accroding to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): Xn Harmful

Risk phrases:

R45: May cause cancer.

R21/22: Harmful in contact with skin and if swallowed.

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety phrases:

S 23: Do not breathe gas/fumes/vapour/spray.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S53: Avoid exposure - obtain special instruction before use.

S 36/37: Wear suitable protective clothing and gloves.

HMIS classification:

Health hazard: 2

Chronic health hazard: *

Flammability: 1

Physical hazards 0

NFPA rating:

Health hazard: 2

Fire: 1

Reactivity hazard: 0

Section 3: Composition & Information on Ingredients

Molecular formula: C₃H₆O₃S

Molecular weight: 122.14

Component	Concentration
CAS Number: 1120-71-4	99%
EC Number: 214-317-9	

Section 4 - First Aid Measures

- Eye:** Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.
- Skin:** Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
- Ingestion:** Wash mouth out with water. Get medical aid immediately.
- Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical aid.

Section 5 – Fire-Fighting Measures

- Extinguishing media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.
- Special hazards arising from the substance or mixture:** Carbon oxides
- Advice for firefighters:** Wear a self-contained breathing apparatus for fire fighting if necessary

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry place. Keep tightly closed. Moisture sensitive.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

Physical state:	Liquid or crystal
Color:	Colorless to light yellow
Odour:	Odorless
Melting point/freezing point:	30-33 °C(lit.)
Initial boiling point and boiling range:	180 °C/30 mmHg(lit.)
Flash point:	>110 °C />230 °F
Evaporation rate:	No data available
Flammability(solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.392 g/mL at 25 °C(lit.)
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section 10-Stability and Reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended temperatures and pressures.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Avoid moisture.
Incompatible materials:	Strong oxidizing agents, Strong bases, Strong acids.
Hazard Decomposition products:	Carbon monoxide(CO), Carbon dioxide(CO ₂), Sulphur oxides(SO _x).

Section 11 - Toxicological Information

Acute toxicity:**Component:** 1,3-Propanesultone**LD50 Oral - rat - 100mg/kg. LD50 Oral - mouse - 400 mg/kg****Skin corrosion/irritation:** Skin - rabbit - Mild skin irritation**Serious eye damage/eye irritation:** No data available**Respiratory or skin sensitization:** May cause allergic reactions.**Germ cell mutagenicity:** No data available**Carcinogenicity:**

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Reproductive toxicity: No data available**Specific target organ toxicity(STOT)-single exposure:** No data available**Specific target organ toxicity (STOT)-repeated exposure:** No data available**Aspiration hazard:** No data available**Additional information:** RTECS#: RP5425000**Section 12 – Ecological Information****Toxicity:** No data available**Component:** 1,3-Propanesultone**LC50** No data available**Persistence and degradability:** No data available**Bioaccumulative potential:** No data available**Component:** 1,3-Propanesultone**Mobility in soil:** No data available**Results of PBT and vPvB assessment:** No data available**Other adverse effects:** No data available**Section 13 - Disposal Consideration****Waste treatment methods****Product:** Dispose of in accordance with federal, state and local environmental regulations**Contaminated packaging:** Dispose of as unused product**Section 14 - Transport Information****IATA****UN number:** 2811**Hazard class:** 6.1**Packing group:** III**Proper shipping name:** TOXIC SOLID, ORGANIC, N.O.S (1,3-Propanesultone)**IMDG**

UN number: 2811
Hazard class: 6.1
Packing group: III
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S (1,3-Propanesultone)

RID/ADR

UN number: 2811
Hazard class: 6.1
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DOT(US)

UN number: 2811
Hazard class: 6.1
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Section 15 - Regulatory Information

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

No data available

*Chemical safety assessment:*No data available

Section 16 – Other Information

SDS creation date: Nov 19, 2011
Update: May 12, 2014

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