

MATERIAL SAFETY DATA SHEET
(S)-1-PHENYL-1,3-PROPANEDIOL 98%

Section 1 - Chemical Product and Company Identification

MSDS Name: (S)-1-PHENYL-1,3-PROPANEDIOL 98 %
Catalog Numbers: 69.55
Synonyms: (S)-3-Phenyl-1,3-dihydroxypropane
Company Identification: Tau-Chem, Ltd.
Nobelova 34, P.O. Box 29
836 05 Bratislava, Slovak Republic
Phone: +421 2 44 452 252 Fax: +421 2 44 457 645

Relevant identified uses of substance or mixture and uses advised against
Identified uses Laboratory chemicals, Manufacture of substances

POISON CENTER: National Toxicological Information Centre
Limbová 5, 833 05 Bratislava,

Emergency Numbers Slovakia: Phone: +42 2 54 774 166 Fax: +42 2 54 774 605

Section 2 - Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a dangerous substance according to GHS.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according to Directive 67/548/EEC.

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Label elements

This product does not need to be labeled in accordance with EC directives or respective national laws.

Caution – substance not yet tested completely.

Other hazards None.

Safety phrases:

S 24/25 Avoid contact with skin and eyes.

Section 3 - Composition, Information on Ingredients

| CAS# | Chemical Name: | % | EINECS# |
|------------|------------------------------|----|----------|
| 96854-34-1 | (S)-1-PHENYL-1,3-PROPANEDIOL | 98 | Unlisted |

Classification This substance is not classified as dangerous according to Directive 67/548/EEC.
For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 - First Aid Measures

| | |
|---------------------------------|--|
| General advice: | Consult a physician. |
| If inhaled: | If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician. |
| In case of skin contact: | Wash off with soap and plenty of water. Consult a physician. |
| In case eye contact: | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| If swallowed: | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

Section 5 - Fire Fighting Measures

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| Suitable extinguishing media: | Use water, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Special protective equipment for fire-fighters: | Wear self contained apparatus breathing apparatus for fire fighting if necessary. |

Section 6 - Accidental Release Measures

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| Personal precautions: | Use personal protective equipment. Avoid breathing of dust. Ensure adequate ventilation. |
| Environmental precautions: | Do not let product enter drains. |
| Methods and materials for containment and cleaning up: | Sweep up and shovel. Keep in suitable, closed containers for disposal. |

Section 7 - Handling and Storage

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|---------------------------------------|--|
| Precautions for safe handling: | Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. |
| Conditions for safe storage: | Keep away from source of ignition. Store in a cool, dry place. Store in a tightly closed container. |

Section 8 - Exposure Controls, Personal Protection

| | |
|---------------------------------------|---|
| Personal protective equipment: | |
| Respiratory protection: | Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Hand protection | The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves. |

| | |
|----------------------------------|---|
| Eye protection: | Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards as NIOSH (US) or EN 166 (EU) |
| Skin and body protection: | Impervious body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures: | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |

Section 9 - Physical and Chemical Properties

Appearance

| | |
|---------|-----------------|
| Form: | Solid, crystals |
| Colour: | white |

Safety data:

| | |
|--------------------------|---|
| pH | Not available |
| Melting point: | 61 - 64°C (uncorrected) |
| Boiling Point: | 290 °C / 760 mm Hg |
| Flash Point: | Not available |
| Ignition temperature: | Not available |
| Explosion Limits: Lower: | Not available |
| Explosion Limits: Upper: | Not available |
| Solubility in water: | Soluble |
| Specific density: | Not available |
| Refractive Index: | Not available |
| Optical rotation: | - 54 ± 2° (c=1, 1,2-dichloroethane) |
| Molecular Formula: | C ₉ H ₁₂ O ₂ |
| Molecular Weight: | 152.19 g/mol |

Section 10 - Stability and Reactivity

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| Chemical Stability: | Stable under recommended storage conditions. |
| Conditions to avoid: | Incompatible materials. |
| Materials to avoid: | Strong oxidizing agents. |
| Hazardous Decomposition Products | Hazardous decomposition products under fire conditions. – Carbon oxides. |

Section 11 - Toxicological Information

| | |
|--|-------------------|
| Acute toxicity | No data available |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity: | |

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

| | |
|---|--|
| Reproductive toxicity: | No data available |
| Specific target organ toxicity – single exposure | No data available |
| Specific target organ toxicity – repeated exposure | No data available |
| Aspiration hazard | No data available |
| Potential health effect: | |
| Inhalation | May be harmful if inhaled. |
| Ingestion | May be harmful if swallowed. |
| Skin | May be harmful if absorbed through skin. |
| Eyes | May cause eye irritation |

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: No data available

Section 12 – Ecological Information

| | |
|--------------------------------------|-------------------|
| Toxicity: | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| PBT and vPvB assessment | No data available |
| Other adverse effects | No data available |

Section 13 - Disposal Considerations

| | |
|-------------------------------|---|
| Product | Observe all federal, state and local environmental regulations. |
| Contaminated packaging | Dispose of as unused product. |

Section 14 - Transport Information

| | IATA | IMDG | RID/ADR |
|-----------------------|---------------------|---------------------|---------------------|
| Shipping Name: | Not dangerous goods | Not dangerous goods | Not dangerous goods |
| Hazard Class: | | | |
| UN Number: | | | |
| Packing Group: | | | |

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006
Not a dangerous substance according to GHS.

Section 16 - Other Information

S 24/25 Avoid contact with skin and eyes.

MSDS Creation Date: 30/07/2008

Revision #1:21/09/2010

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer:

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.