

MATERIAL SAFETY DATA SHEET
2-(2-BENZOTHAZOLYLTHIO)ETHANOL 95%

Section 1 - Chemical Product and Company Identification

MSDS Name: 2-(2-BENZOTHAZOLYLTHIO)ETHANOL 95%
Catalog Numbers: 10.93
Synonyms:
Company Identification: Tau-Chem, Ltd.
 Nobelova 34, P.O. Box 29
 836 05 Bratislava, Slovak Republic
 Phone: +421 2 4445 2252 Fax: +421 2 4445 7645

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, Slovakia

Emergency Numbers: Phone: +421 2 54 774 166 Fax: +421 2 54 774 605

Section 2 - Hazards Identification

Classification according to Regulation (EC) No 1272/2008

Classification of the substance or mixture

Acute toxicity, Inhalation (Category 4)
 Acute toxicity, Dermal (Category 4)
 Acute toxicity, Oral (Category 4)
 Eye Irrit. (Category 2)
 Skin Irrit. (Category 2)
 Specific target organ toxicity – single exposure (Category 3)

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

Harmful by inhalation, in contact with skin and if swallowed.
 Irritating to eyes, respiratory system and skin.

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

Label elements



| | |
|---------------------|--------------------------------|
| Signal word | Warning |
| Hazard statement(s) | |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation. |

| | |
|----------------------------|--|
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation |
| Precautionary statement(s) | |
| P261 | Avoid breathing dust/ fume/gas/mist/vapor/spray. |
| P280 | Wear protective gloves/ protective clothing. |
| P305+P351+P338 | IF <u>IN EYES</u> : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304+P340 | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P302+P352 | IF ON SKIN: Gently wash with plenty of soap and water. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified). |

Hazard symbol(s)

According to European Directive 67/548/EEC as amended



Hazard symbol(s)

Xn

Harmful.

R-phrase(s)

R20/21/22

Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38

Irritating to eyes, respiratory system and skin.

S-phrase(s)

S26

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

S36

Wear suitable protective clothing.

Other hazards

None.

Section 3 - Composition, Information on Ingredients

| CAS# | Chemical Name: | % | EINECS# |
|-----------|--------------------------------|----|---------|
| 4665-63-8 | 2-(2-BENZOTHAZOLYLTHIO)ETHANOL | 95 | - |

Classification Acute Tox.4;Skin Irrit. 2; Eye Irrit. 2; STOT SE 3
H302;H312;H319, H315,H332;H335
Xn, R20/21/22 - R36/37/38

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. Show this safety data sheet to the doctor in attendance.

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 spray, 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

| | |
|---|---|
| Personal precautions: | Use personal protective equipment. Avoid breathing of vapours or mist. Ensure adequate ventilation. |
| Environmental precautions: | Do not let product enter drains. |
| Methods and materials for containment and cleaning up: | Pick up and arrange disposal without creating dust. Sweep and shovel. Keep in suitable clean, dry, closed container for disposal. |

Section 7 - Handling and Storage

| | |
|---------------------------------------|--|
| 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: | 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: Powder
Colour: White

Safety data:

pH Not available
Melting point: 50 - 55 °C
Boiling Point: Not available
Flash Point: Not available
Ignition temperature: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Solubility in water: Not available
Specific density: Not available
Molecular Formula: C₉H₉NOS₂
Molecular Weight: 211.3 g/mol

Section 10 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.
Conditions to avoid: No data available.
Materials to avoid: Strong oxidizing agents.
Hazardous Decomposition Products: Hazardous decomposition products under fire conditions.
– Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides.

Section 11 - Toxicological Information

Acute toxicity LD50 Oral – mouse- 1.017 mg/kg
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: Inhalation – May cause respiratory tract irritation.
Specific target organ toxicity – repeated exposure: No data available
Aspiration hazard: No data available

Potential health effect:

| | |
|-------------------|---|
| Inhalation | Harmful if inhaled. Causes respiratory tract irritation. |
| Ingestion | Harmful if swallowed. |
| Skin | Harmful if absorbed through skin. Causes skin irritation. |
| Eyes | Causes serious 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: DL4900000

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

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| Product | Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. |
| 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: | | Marine pollutant: No | |

Section 15 - Regulatory Information

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

Section 16 - Other Information

| | |
|-------------|---|
| Acute Tox. | Acute toxicity. |
| Eye Irrit | Eye irritation. |
| Skin Irrit. | Skin irritation. |
| STOT SE | Specific target organ toxicity – single exposure |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| Xn | Harmful |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |

MSDS Creation Date: 13/01/2011

Revision #0: Original

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.