

MATERIAL SAFETY DATA SHEET
3-2(2-FURYL)PROPANOIC ACID 99%

Section 1 - Chemical Product and Company Identification

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|---|--|
| MSDS Name: | 3-(2-FURYL)PROPANOIC ACID 99 % |
| Catalog Numbers: | 4.52 |
| Synonyms: | 2-FURANPROPIONIC ACID;3-FURAN-2-YL-PROPIONIC ACID |
| Relevant identified uses of substance or mixture and uses advised against | |
| Identified uses | Laboratory chemicals, Manufacture of substances |
| Company Identification: | Tau-Chem, Ltd. Nobelova 34, P.O. Box 29 836 05 Bratislava, Slovak Republic Phone: +421 2 44 452 252 Fax: +421 244 457 645 |
| 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 [EU-GHS/CLP]

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity – single exposure (Category 3)

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

Irritating to eyes, respiratory system and skin.

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

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes serious eye irritation

H335

May cause respiratory irritation.

Precautionary statement(s)

P261

Avoid breathing dust.

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.

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| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P332+P313 | If skin irritation occurs: Get medical advice/ attention. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified). |
| Hazard symbol(s) | |
| Xi | Irritant. |
| R-phrase(s) | |
| R36/37/38 | <u>Irritating</u> to eyes, <u>respiratory</u> system and skin. |
| S-phrase(s) | |
| S26 | In case of contact wit eyes, rinse immediately with plenty of water and seek medical advice. |
| S36/37 | Wear suitable protective clothing and gloves. |
| Other hazards | None. |

Section 3 - Composition, Information on Ingredients

| CAS# | Chemical Name: | % | EINECS# |
|----------|---------------------------|----|-----------|
| 935-13-7 | 3-(2-FURYL)PROPANOIC ACID | 99 | 213-298-4 |

Classification Skin Irrit. 2; Eye Irrit. 2
STOT SE 3; H315, H318, H335
Xi, R36/37/38

For he full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 - First Aid Measures

| | |
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| 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 f 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: Avoid dust formation. Use personal protective equipment.

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| | Ensure adequate ventilation. Evacuate personnel to safe area. |
| Environmental precautions: | Do not let product enter drains. |
| Methods and materials for containment and cleaning up | Vacuum or sweep or pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. |

Section 7 - Handling and Storage

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| Precautions for safe handling: | Avoid exposure – obtain special instructions before use. Avoid inhalation of dust or vapour. Normal measures for preventive fire protection. |
| Conditions for safe storage: | Store in a tightly closed container. Store in a dry area. Keep refrigerated. Store below 4°C |

Section 8 - Exposure Controls, Personal Protection

Personal protective equipment:

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| 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. |
| Skin and body protection: | Choose 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

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|---------|-----------------------|
| Form: | Crystalline powder |
| Colour: | almost white to brown |

Safety data:

| | |
|---------------------------------|--|
| pH | Not available |
| Melting Point: | 54 - 58 °C |
| Boiling Point: | 229 °C at 760.00mm Hg |
| Flash Point: | Not available |
| Ignition temperature: | Not available |
| Explosion Limits: Lower: | Not available |
| Explosion Limits: Upper: | Not available |
| Solubility in water: | soluble in water |
| Density: | Not available |
| Refractive Index: | Not available |
| Molecular Formula: | C ₇ H ₈ O ₃ |
| Molecular Weight: | 140.05 g/mol |

Section 10 - Stability and Reactivity

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| Chemical Stability: | Stabile 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. |

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.

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| Reproductive toxicity: | No data available |
| Specific target organ toxicity – single exposure | Inhalation – May cause respiratory irritation. |
| Specific target organ toxicity – repeated exposure | No data available |
| Aspiration hazard | No data available |
| Potential health effect: | |
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation. |
| Ingestion | May be harmful if swallowed. |
| Skin | May be 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: 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

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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 combustive solvent and burn in a chemical incinerator 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: | | | |

Section 15 - Regulatory Information

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

Section 16 - Other Information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

| | |
|-------------|---|
| Skin Irrit. | Skin irritation. |
| Eye Irrit. | Eye irritation. |
| STOT SE | Specific target organ toxicity – single exposure. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation. |
| Xi | Irritant. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |

MSDS Creation Date:26/06/2010

Revision #0 Date:

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.