

3-(Thien-2-yl)acrylic acid Safety Data Sheet 6H211Y4 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/06/2018 Version: 1.0

| SECTION 1: Identification | |
|---|---|
| | |
| Product form | : Substance |
| Substance name | : 3-(Thien-2-yl)acrylic acid |
| CAS No | : 1124-65-8 |
| roduct code | : 6H21-1-Y4 |
| prmula | : C7H6O2S |
| ynonyms | : 3-(Thien-2-yl)prop-2-enoic acid: 2-(2-Carboxyethenyl)thiophene |
| ther means of identification | : MFCD00005455 |
| | |
| | ubstance or mixture and uses advised against |
| se of the substance/mixture | : Laboratory chemicals Manufacture of substances Scientific research and development |
| .3. Details of the supplier of the safe | ety data sheet |
| SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America ⁻ (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - www.synquestlabs. | |
| .4. Emergency telephone number | |
| mergency number | : (844) 523-4086 (3E Company - Account 10069) |
| | |
| TOT SE 3 H335 - May cause respiratory full text of H-phrases: see section 16 | |
| TOT SE 3 H335 - May cause respiratory full text of H-phrases: see section 16 | |
| STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling | |
| STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) | y irritation : GHS07 : Warning |
| Full text of H-phrases: see section 16 | y irritation : time the second secon |

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| 2.4. U | | | | |
|--------------------------------|---|---|--|---|
| 2.4. U | al information available | | | |
| Not applicat | nknown acute toxicity (GHS US) | | | |
| | ble | | | |
| SECTION | 3: Composition/information | on ingredients | | |
| 3.1. S | ubstance | | | |
| Substance t | .ype : | Mono-constituent | | |
| Name | | Product identifier | % | Classification (GHS-US) |
| 3-(Thien-2-y (Main constitu | yl)acrylic acid Jent) | (CAS No) 1124-65-8 | <= 100 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |
| Full text of H | H-phrases: see section 16 | | | • |
| 3.2. M | lixture | | | |
| Not applicat | ble | | | |
| SECTION | 4: First aid measures | | | |
| 4.1. D | escription of first aid measures | | | |
| First-aid me | easures general : | In case of accident or if you feel where possible). Move the affect | | |
| First-aid me | easures after inhalation | Remove person to fresh air and respiration. Get medical advice/a | • | hing. If not breathing, give artificial |
| First-aid me | asures after skin contact | Wash with plenty of soap and wa | ter. Get medical advice/att | tention. |
| -irst-aid me | | present and easy to do. Continue | rinsing. Get medical advid | |
| First-aid me | easures after ingestion | Do NOT induce vomiting. Never mouth out with water. Get medic | give anything by mouth to a al advice/attention. | an unconscious person. Rinse |
| 4.2. M | lost important symptoms and effects | , both acute and delayed | | |
| Symptoms/i | njuries : | The most important known symp 2.2) and/or in section 11. | toms and effects are descr | ibed in the labelling (see section |
| 4.3. In | dication of any immediate medical a | ttention and special treatment n | eeded | |
| Treat sympt | omatically. | | | |
| SECTION | 1 5: Firefighting measures | | | |
| 5.1. E | xtinguishing media | | | |
| | | Alcohol resistant foam. Carbon d appropriate for surrounding fire. | ioxide. Dry powder. Water | spray. Use extinguishing media |
| 5.2. S | pecial hazards arising from the subs | | | |
| Fire hazard | : | Thermal decomposition generate | s: Carbon oxides. Sulfur o | xides. |
| 5.3. A | dvice for firefighters | | | |
| Firefighting | instructions : | In case of fire: Evacuate area. | | |
| Protection d | luring firefighting : | Wear gas tight chemically protec apparatus. For further informatio | | n with self contained breathing sure controls/personal protection". |
| | N 6: Accidental release measu | | | |
| 6.1. Po | ersonal precautions, protective equi | | | |
| ` | asures | Evacuate unnecessary personne | I. Ensure adequate air ven | tilation. Do not breathe dust. |
| Seneral me | or non-emergency personnel | | | |
| | | | d with suitable protective e | equipment may intervene. |
| 6.1.1. Fo | procedures : | Only qualified personnel equippe | | |
| Emergency | procedures : or emergency responders | | | |

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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| 3. Methods and material for containment and cleaning up | | |
|--|--|--|
| For containment | : Stop leak if safe to do so. | |
| Methods for cleaning up | : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. | |
| Other information | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations". | |
| 6.4. Reference to other sections | | |
| | | |
| No additional information available | | |
| | | |
| No additional information available SECTION 7: Handling and storag | e | |
| | je | |
| SECTION 7: Handling and storag | Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. | |

| 7.2. | Conditions for safe storage, includi | ng any incompatibilities |
|----------|--------------------------------------|--|
| Technica | al measures | : Comply with applicable regulations. |
| Storage | conditions | : Keep container closed when not in use. |
| Incompa | tible materials | : Refer to Section 10 on Incompatible Materials. |
| Storage | area | : Store in dry, cool, well-ventilated area. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

| 8.2. Exposure controls | |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Hand protection | : Protective gloves. 29 CFR 1910.138: Hand Protection. |
| Eye protection | : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. |
| Other information | : Safety shoes. 29 CFR 1910.136: Foot Protection. |

SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical a | nd chemical properties |
|---|------------------------|
| Physical state | : Solid |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : 145 - 147 °C |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Vapor pressure | : No data available |
| Relative density | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Molecular mass | : 154.19 g/mol |

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| Solubility | : No data available |
|---------------------------|---------------------|
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |

9.2. Other information

No additional information available

| SECTION 10: Stability and reactivity | tv |
|--|--|
| 10.1. Reactivity | |
| No additional information available | |
| 10.2. Chemical stability | |
| The product is stable at normal handling and s | storage conditions. |
| 10.3. Possibility of hazardous reactions | |
| No additional information available | |
| 10.4. Conditions to avoid | |
| Keep away from heat, sparks and flame. | |
| 10.5. Incompatible materials | |
| Strong bases. Strong oxidizing agents. | |
| 10.6. Hazardous decomposition produc | ts |
| Under normal conditions of storage and use, h fire, see Section 5. | nazardous decomposition products should not be produced. Hazardous decomposition products in case of |
| SECTION 11: Toxicological information | ation |
| 11.1. Information on toxicological effect | |
| | |
| Acute toxicity | : Not classified |
| Skin corrosion/irritation Serious eye damage/irritation | Causes skin irritation.Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified : Not classified |
| Carcinogenicity | |

- Reproductive toxicity : Not classified
- Specific target organ toxicity (single exposure) : May cause respiratory irritation.
- Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard

: Not classified

| SECT | TON 12: Ecological information | on | | |
|---------|---------------------------------------|-----------------|-----------------|-----|
| 12.1. | Toxicity | | | |
| No add | litional information available | | | |
| 12.2. | Persistence and degradability | | | |
| No add | litional information available | | | |
| 12.3. | Bioaccumulative potential | | | |
| No add | litional information available | | | |
| 12.4. | Mobility in soil | | | |
| No add | litional information available | | | |
| 12.5. | Other adverse effects | | | |
| No add | litional information available | | | |
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| SECTION 13: Disposal consideration | ons |
|---|---|
| 13.1. Waste treatment methods | |
| Waste treatment methods | : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. |
| Waste disposal recommendations | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information | : Recycle the material as far as possible. |
| SECTION 14: Transport information | 1 |
| Department of Transportation (DOT) | |
| In accordance with DOT | |
| Not regulated for transport | |
| TDG | |
| No additional information available | |
| Transport by sea | |
| No additional information available | |
| Air transport | |
| No additional information available | |
| SECTION 15: Regulatory information | on la constante de la constante |
| 15.1. US Federal regulations | |
| All components of this product are listed, or e Substances Control Act (TSCA) inventory exc | xcluded from listing, on the United States Environmental Protection Agency Toxic ept for: |

| 3-(Thien-2-yl)acrylic acid CAS No 1124-65-8 100% | | | |
|--|----------------------------|------------------|------|
| | 3-(Thien-2-yl)acrylic acid | CAS No 1124-65-8 | 100% |

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

| 3-(Thien-2-yl)acrylic acid (1124-65-8) | |
|--|--|
| Listed on the TCSI (Taiwan Chemical Substance Inventory) | |

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
|---------------|---|
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

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| NFPA health hazard | : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. |
|--------------------|---|
| NFPA fire hazard | : 0 - Materials that will not burn. |
| NFPA reactivity | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |
| HMIS III Rating | |
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 0 Minimal Hazard - Materials that will not burn |
| Physical | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.