AK Scientific, Inc.

Safety Data Sheet (United States) 2-Mercapto-1,2,5,6,7,8-hexahydroquinoline-3-carboxylic acid

| 1.Identification | |
|---------------------------|---|
| Product name: | 2-Mercapto-1,2,5,6,7,8-hexahydroquinoline-3-carboxylic acid |
| Catalog#: | 0370EA |
| IUPAC name: | 2-sulfanyl-1,2,5,6,7,8-hexahydroquinoline-3-carboxylic acid |
| Product use restrictions: | Only for research and development use by, or directly under the supervision |
| | of, a technically qualified individual. |
| Company: | AK Scientific, Inc. |
| | 30023 Ahern Ave. |
| | Union City, CA 94587 |
| Telephone: | (510) 429-8835 |
| Fax: | (510) 429-8836 |
| Website: | www.aksci.com |
| Emergency contact number | : 1-800-633-8253 United States & Canada |
| | 1-801-629-0667 International |

2.Hazard Identification:

GHS Classification (United States)

Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3), Respiratory system

Pictogram(s)



Signal word:

Warning

Hazard statement(s)

| H315 | Causes skin irritation. |
|------|-----------------------------------|
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Precautionary statement(s):

| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
|----------------|--|
| P264 | Wash skin thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+P340 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for |
| | breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses |
| | if present and easy to do. Continue rinsing. |
| P312 | Call a poison center or doctor if you feel unwell. |
| P321 | Specific treatment (see supplemental first aid instructions on this label). |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |
| | |

Hazards not otherwise classified (HNOC) or not covered by GHS:

None

3.Composition/Information on Ingredients

| Synonyms: | |
|-----------|--|
| CAS#: | |
| Purity: | |
| EC: | |

2-Mercapto-1,2,5,6,7,8-hexahydroquinoline-3-carboxylic acid;AKOS024255948 1706443-39-1 95% Not available.

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Specific hazards arising from the chemical: Carbon oxides, Nitrogen oxides, Sulfur oxides. Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed

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container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure limits:

| OSHA PEL: | Not available. |
|------------|----------------|
| NIOSH REL: | Not available. |
| ACGIH TLV: | Not available. |

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

| Personal protection | |
|---------------------|----------------|
| Eyes: | Not Available. |
| Hands: | Not Available. |
| Skin and body: | Not Available. |
| Respiratory: | Not Available. |

| Physical State:Not available.Molecular Formula:C10H13NO2SMolecular Weight:211.28Odor:Not available.pH:Not available.Boiling Point Range:Not available.Freezing/Melting Point:Not available.Freezing/Melting Point:Not available.Flash Point:Not available.Evaporation Rate:Not available.Flammability(solid,gas):Please see section 2.Explosive limits:Not available.Vapor Pressure:Not available.Vapor Density:Not available.Solubility:Not available.Relative Density:Not available.Refractive Index:Not available.Volatility:Not available.Volatility:Not available.Volatility:Not available.Purperature:Not available. | 9. Physical and Chemical Properties | |
|---|-------------------------------------|-----------------------|
| Molecular Weight:211.28Odor:Not available.pH:Not available.Boiling Point Range:Not available.Freezing/Melting Point:Not available.Flash Point:Not available.Flash Point:Not available.Evaporation Rate:Not available.Flammability(solid,gas):Please see section 2.Explosive limits:Not available.Vapor Pressure:Not available.Vapor Density:Not available.Solubility:Not available.Relative Density:Not available.Refractive Index:Not available.Volatility:Not available.Auto-ignition Temperature:Not available. | Physical State: | Not available. |
| Odor:Not available.pH:Not available.Boiling Point Range:Not available.Freezing/Melting Point:Not available.Flash Point:Not available.Flash Point:Not available.Evaporation Rate:Not available.Flammability(solid,gas):Please see section 2.Explosive limits:Not available.Vapor Pressure:Not available.Vapor Density:Not available.Solubility:Not available.Relative Density:Not available.Refractive Index:Not available.Volatility:Not available.Auto-ignition Temperature:Not available. | Molecular Formula: | C10H13NO2S |
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| Refractive Index:Not available.Volatility:Not available.Auto-ignition Temperature:Not available. | Solubility: | Not available. |
| Volatility:Not available.Auto-ignition Temperature:Not available. | Relative Density: | Not available. |
| Auto-ignition Temperature: Not available. | Refractive Index: | Not available. |
| | Volatility: | Not available. |
| Decomposition Temperature: Not available | Auto-ignition Temperature: | Not available. |
| | Decomposition Temperature: | Not available. |
| Partition Coefficient: Not available. | Partition Coefficient: | Not available. |

10. Stability and Reactivity

| Reactivity: | Not available. |
|-------------------------------------|--|
| Chemical stability: | Stable under recommended temperatures and pressures. |
| Possibility of hazardous reactions: | Not available. |
| Conditions to avoid: | Dust generation. |
| Incompatible materials: | Strong oxidizing agents. |
| Hazardous decomposition products: | Carbon oxides, Nitrogen oxides, Sulfur oxides. |
| 1 1 | |

11. Toxicological Information

RTECS# Acute toxicity: Routes of exposure: Symptoms related to the physical,chemical and toxicological characteristics: Not available. Not available. Inhalation,eye contact,skin contact,ingestion. Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

Carcinogenicity

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IARC:Not classified.NTP:Not listed.OSHA:Not Available..Acute toxic effects:Inflammation of the eye is characterized by redness, watering, and itching. Skin
inflammation is characterized by itching, scaling, reddening, or, occasionally,
blistering.

| 12. Ecological Information Ecotoxicity: | Not available. |
|---|----------------------------------|
| Persistence and degradability: | Not available. |
| Bioaccumulative potential: Mobility in soil: | Not available. Not available. |
| Other adverse effects: | Not available. |
| 13. Disposal Considerations | |
| Disposal of waste: | Not listed |
| Disposal of packaging: | Not listed |
| 14. Transportation Information | |
| DOT (United States) | |
| UN number: | Not hazardous material. |
| Proper shipping name: | Not available. |
| Transport hazard class: Packing group: | Not available. Not available. |
| | Not available. |
| UN Number: | Not dangerous good. |
| Proper shipping name: | Not available. |
| Transport hazard class: | Not available. |
| Packing group: | Not available. |
| 15. Regulatory Information | |
| TSCA (United States) | |
| Not Available. | |
| | |
| | |

California Proposition 65: NFPA Rating:

Not Available.. Health: Flammability: Instability:

Not available. Not available. Not available.

16. Additional Information

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their

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