AK Scientific, Inc.

Safety Data Sheet 5.6-Difluoroisatin

1. Identification

Product name: 5,6-Difluoroisatin

Catalog#: X0274

IUPAC name: 5,6-Difluoro-1H-indole-2,3-dione

Product use restrictions:

Only for research and development use by, or directly under the

supervision of, a technically qualified individual.

Company: AK Scientific, Inc.

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1-800-633-8253 United States & Canada

Emergency contact number: 1-801-629-0667 International

2. Hazard Identification

GHS Classification

Skin irritation (Category 2) Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

Pictogram



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 victim 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).

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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: No data available. CAS#: [83684-73-5]
Purity: 98% (HPLC)
EC#: No data 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: Hydrogen fluoride, Nitrogen oxides, Carbon 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.

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

8. Exposure Controls/Personal Protection

Exposure limits

OSHA PEL: No data available. NIOSH REL: No data available. ACGIH TLV: No data 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:

Hands:

Skin and body:

Based on an evaluation of the eye or face hazards present, wear chemical

splash-resistant safety glasses or goggles with side protection. A face shield may be appropriate in some workplaces. Use eyewear tested and

approved under appropriate government standards such as OSHA 29 CFR

1910.133 or EU EN166.

Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical conditions of the

workplace, and the chemical resistance and physical properties of the

glove material.

Protective clothing must be selected based on the hazards present in the workplace, the physical environment, the duration of exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the appropriate protective clothing for

each specific hazard. At the minimum, wear a laboratory coat and close-

toed footwear.

Respirators are not a substitute for accepted engineering control measures

Respiratory: such as enclosure or confinement of the operation, general and local

ventilation, and substitution of less toxic materials. When respiratory

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personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

9. Physical and Chemical Properties

Physical State: Orange powder Molecular Formula: C8H3F2NO2

Molecular Weight: 183.11

Odor: No data available. PH: No data available. Boiling Point Range: No data available.

Freezing/Melting Point: 230-231°C

Flash Point: No data available. **Evaporation Rate:** No data available. Flammability (solid, gas): Please see section 2. Explosive limits: No data available. Vapor Pressure: No data available. Vapor Density: No data available. Solubility: No data available. Relative Density: No data available. Refractive Index: No data available. Volatility: No data available.

Auto-ignition

temperature:

No data available.

Decomposition

Temperature:

No data available.

Partition Coefficient: No data available.

10. Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable under recommended temperatures and pressures.

Possibility of hazardous No data available.

reactions:

Conditions to avoid: Dust generation.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition Hydrogen fluoride, Nitrogen oxides, Carbon oxides

products:

11. Toxicological Information

RTECS#: No data available. Acute toxicity: No data available.

Routes of exposure: Inhalation, eye contact, skin contact, ingestion.

Symptoms related to the physical, chemical and scaling, reddening, blistering, pain or dryness. Eye contact may result toxicological characteristics: in redness, pain or severe eye damage. Inhalation may cause irritation

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of the lungs and respiratory system. Overexposure may result in

serious illness or death.

Carcinogenicity

IARC: Not classified.

NTP: Not listed.

OSHA: Not listed.

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: No data available. Persistence and No data available.

degradability:

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal Considerations

Disposal of waste: Chemical waste generators must determine whether a discarded chemical

is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators

must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local

regulations when disposing of the substance.

Disposal of packaging: Do not reuse containers. Dispose of as unused product.

14. Transportation Information

DOT (United States)

UN number: Not applicable. Proper shipping name: Not applicable. Transport hazard class: Not applicable. Packing group: Not applicable.

IATA

UN number:
Proper shipping name:
Not applicable.
Transport hazard class:
Packing group:
Not applicable.
Not applicable.

15. Regulatory Information

TSCA Chemical Inventory:

This product is NOT on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720 et seq. The health risks have not been fully determined. Any

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information that is or becomes available will be supplied on the SDS.

California

Proposition 65:

Not listed.

NFPA Rating:

Health: No data available. Flammability: No data available. Instability: No data available.

16. Additional Information

Revision Date: 6/2/2017 Printed Date: 7/18/2017

Disclaimer:

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 own investigations to determine the suitability of the information for their particular purposes. In no event shall AK Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AK Scientific has been advised of the possibility of such damages.