AK Scientific, Inc.

Safety Data Sheet

2-Furanacrolein

1. Identification

Product name: 2-Furanacrolein

Catalog#: R559

IUPAC name: (E)-3-(Furan-2-yl)prop-2-enal

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

1-800-633-8253 United States & Canada

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

2. Hazard Identification

GHS Classification

Acute toxicity, Oral (Category 4) Acute toxicity, Oral (Category 4) Serious eye damage (Category 1)

Pictogram



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P301+P312 If swallowed: Call a poison center or doctor if you feel unwell.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

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.

P310 Immediately call a poison center or doctor.

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P321 Specific treatment (see supplemental first aid instructions on this

label).

P363 Wash contaminated clothing before reuse.

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#: [623-30-3] Purity: 98% (GC) EC#: 210-785-3

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

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. Air sensitive. Recommended storage temperature: 2-8°C.

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
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Eyes:

Hands:

Skin and body:

Respiratory:

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

such as enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials. When respiratory

personal protective equipment is appropriate based on an assessment of

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respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

9. Physical and Chemical Properties

Physical State: Light brown to brown crystalline powder

Molecular Formula: C7H6O2 Molecular Weight: 122.12

Odor: No data available. pH: No data available. Boiling Point Range: 100-102°C (12mmHg)

Freezing/Melting Point: 49-55°C Flash Point: 99°C

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 No data available.

temperature:

Decomposition No data available. Temperature: Partition Coefficient: No data available.

10. Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable under recommended temperatures and pressures. No data available.

Possibility of hazardous

reactions:

Dust generation. Air. Heat. Strong oxidizing agents.

Incompatible materials: Hazardous decomposition

Conditions to avoid:

products:

Carbon oxides

11. Toxicological Information

RTECS#: No data available.

LD50 Oral - Rat - >860mg/kg Acute toxicity:

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

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

of the lungs and respiratory system. Overexposure may result in

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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: UN1759

Proper shipping name: Corrosive solids, n.o.s. (2-Furanacrolein)

Transport hazard class: 8
Packing group: III

IATA

UN number: UN1759

Proper shipping name: Corrosive solid, n.o.s. (2-Furanacrolein)

Transport hazard class: 8
Packing group: III

15. Regulatory Information

TSCA Chemical Inventory:

This product is 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:

NFPA Rating: Health: 3

Flammability: 0 Instability: 0

Not listed.

16. Additional Information

Revision Date: 6/2/2017 Printed Date: 7/15/2017

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.