# AK Scientific, Inc.

Safety Data Sheet (United States)

2-Fluoronitrobenzene

1.Identification

Product name: 2-Fluoronitrobenzene

Catalog#: D617

IUPAC name: 1-Fluoro-2-nitrobenzene

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)**

Acute oral toxicity (Category 3) Acute dermal toxicity (Category 2) Skin Corrosion/Irritation (Category 2)

Serious Eye Damage/Eye Irritation (Category 2)

Specific target organ toxicity - (repeated exposure) (Category 2)

Target Organs - Blood.

# Pictogram(s)



#### Signal word:

Danger

**Hazard statement(s)** 

H301 Toxic if swallowed.

H301+H311 Toxic if swallowed or in contact with skin.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H301+H331 Toxic if swallowed or if inhaled. H310 Fatal in contact with skin.

H310+H330 Fatal in contact with skin or if inhaled.

H315 Causes skin irritation. H319 Causes serious eye irritation.

**Precautionary statement(s):** 

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

P262 Do not get in eyes, on skin, or on clothing.

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

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

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

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- if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P301+P310+P330 If swallowed: Immediately call a poison center or doctor. Rinse mouth.

P301+P312+P330 If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P330 Rinse mouth. P405 Store locked up.

P503 Notice to users: Disposal restrictions apply.

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:
 Not available.

 CAS#:
 1493-27-2

 Purity:
 98% (GC)

 EC:
 216-088-0

#### 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, Hydrogen fluoride, Nitrogen 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

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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. ,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: 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.

Hands: 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.

Skin and body: 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.

Respiratory: 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 respiratory hazards in the workplace, use a NIOSH- or

CEN-certified respirator.

# 9. Physical and Chemical Properties

Physical State: Liquid
Molecular Formula: C6H4FNO2
Molecular Weight: 141.1

Odor:

pH:

Not available.

Not available.

Not available.

116°C (22 mmHg)

Freezing/Melting Point: -9--6°C Flash Point: 94°C

Evaporation Rate: Not available. Flammability(solid,gas): Please see section 2.

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Explosive limits:

Vapor Pressure:

Vapor Density:

Solubility:

Not available.

Not available.

> 1.0 (Air = 1.0)

Immiscible with water

Relative Density: 1.338 Refractive Index: 1.532

Volatility:Not available.Auto-ignition Temperature:Not available.Decomposition Temperature: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, Hydrogen fluoride, Nitrogen oxides.

11. Toxicological Information

toxicological characteristics:

RTECS# Not available.

Acute toxicity: TDLo Oral-Rat-70.55mg/kg

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

Symptoms related to the physical, chemical and

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

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:

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

Not available.

Not available.

Not available.

Not 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)** 

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UN number: UN2810

Proper shipping name: Toxic, liquids, organic, n.o.s. (2-Fluoronitrobenzene)

Transport hazard class: 6.1;Poison

Packing group:

**IATA** 

UN Number: UN2810

Proper shipping name: Toxic liquid, organic, n.o.s. (2-Fluoronitrobenzene)

Transport hazard class: 6.1;Poison

Packing group:

### 15. Regulatory Information

# **TSCA (United States)**

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

California Proposition 65: Not Available..

NFPA Rating:
Health:
Flammability:

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Flammability: 1 Instability: 0

#### 16. Additional Information

Version: 3

Revision Date: 03/17/2024 Printed Date: 03/17/2024

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.