AK Scientific, Inc.

Safety Data Sheet (United States) 3-Chloro-2-fluoronitrobenzene

1.Identification	
Product name:	3-Chloro-2-fluoronitrobenzene
Catalog#:	J97169
IUPAC name:	1-Chloro-2-fluoro-3-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 Toxicity, Oral (Category 4) Acute Toxicity, Dermal (Category 4) Skin Irritation (Category 2) Serious eye damage (Category 2A) Acute toxicity, Inhalation (Category 3) Specific target organ toxicity -single exposure (Category 3), Respiratory system

Pictogram(s)



Signal word:

Danger

Hazard statement(s)

H302+H312	-
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

Precautionary statement(s):

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P311	Call a poison center or doctor.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
D227 D212	If any irritation parsists: Cat madical 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:	Not available.
CAS#:	2106-49-2
Purity:	95%
EC:	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, Hydrogen chloride, 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 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:	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

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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.	
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Skin and body: Protective clothing must be selected based on the hazards present in the workplace,		
	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.	
	chi continua respirator.	

9. Physical and Chemical Properties	
Physical State:	Brown clear liquid
Molecular Formula:	C6H3CIFNO2
Molecular Weight:	175.54
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	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: Refractive Index: Volatility: Auto-ignition Temperature: Decomposition Temperature: Partition Coefficient:	Not available. Not available. Not available. Not available. Not available. 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.

Dust generation. Strong oxidizing agents.

Incompatible materials: Hazardous decomposition products: Carbon oxides, Hydrogen chloride, Hydrogen fluoride, Nitrogen oxides.

or death.

system. Overexposure may result in serious illness

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

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 Info	rmation	
Ecotoxicity:		Not available.
Persistence and degrad	dability:	Not available.
Bioaccumulative poter	ntial:	Not available.
Mobility in soil:		Not available.
Other adverse effects:		Not available.
13. Disposal Consi	derations	
Disposal of waste:	classified as hazardo determination are lis consult state and loc accurate classificatio disposing of the subs	
Disposal of packaging	: Do not reuse contain	ners. Dispose of as unused product.
14. Transportation	Information	
DOT (United States	=)	

DOT (United States) UN number: Proper shipping name:

UN2810 Toxic, liquids, organic, n.o.s. (3-Chloro-2-fluoronitrobenzene)

Transport hazard class:	6.1;Poison
Packing group:	III
ΙΑΤΑ	
UN Number:	UN2810
Proper shipping name:	Toxic liquid, organic, n.o.s. (3-Chloro-2-fluoronitrobenzene)
Transport hazard class:	6.1;Poison
Packing group:	III

15. Regulatory Information

TSCA (United States)

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

California Proposition 65:	Not Available	
NFPA Rating:	Health:	Not available.
	Flammability:	Not available.
	Instability:	Not available.

16. Additional Information

Revision Date: 02/25/2019 Printed Date: 02/14/2020

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.