# AK Scientific, Inc.

**Safety Data Sheet** (United States) 1-Chloro-1,2-difluoroethylene

1.Identification	Identification	
Product name:	1-Chloro-1,2-difluoroethylene	
Catalog#:	0903CA	
IUPAC name:	1-chloro-1,2-difluoroethene	
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)

Flam. Gas (category 1) Press. Gas (Liq.) (100%)

## Pictogram(s)



Signal word:

Danger

### Hazard statement(s)

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated

#### **Precautionary statement(s):**

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P403	Store in a well-ventilated place.
P410+P403	Protect from sunlight. Store in a well-ventilated place.

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

None

## 3.Composition/Information on Ingredients

Synonyms:	1-chloro-1,2-difluoroethene;1-Chloro-1,2-difluoroethylene;(E)-1-chloro-1,2-diflu
	oroethene;Chlorodifluoroethylene;CTK4H5558

CAS#: 359-04-6 Purity: 95% EC: 206-622-0

## 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 chloride, Hydrogen fluoride.

**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. ,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

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#### concentrations low.

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Personal protection	
Eyes:	Not Available.
Hands:	Not Available.
Skin and body:	Not Available.
Respiratory:	Not Available.
9. Physical and Chemical Properties	
Physical State:	Not available.
Molecular Formula:	C2HClF2
Molecular Weight:	98.48
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:	Not available.
Refractive Index:	Not available.
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Partition Coefficient:	Not available.

### **10. Stability and Reactivity**

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

#### **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

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.

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12. Ecological Information			
Ecotoxicity:	Not availabl		
Persistence and degradability:	Not availabl		
Bioaccumulative potential:	Not availabl	e.	
Mobility in soil:	Not availabl	e.	
Other adverse effects:	Not availabl	е.	
13. Disposal Considerations	13. Disposal Considerations		
Disposal of waste:	Not listed		
Disposal of packaging:	Not listed		
14. Transportation Information			
DOT (United States)			
UN number:	Not hazmat		
Proper shipping name:	Not available.		
Transport hazard class:	Not available.		
Packing group:	Not available.		
IATA			
UN Number:	Not DG		
	Not DG Not available.		
Proper shipping name:			
Transport hazard class:	Not available.		
Packing group:	Not available.		
15. Regulatory Information			
TSCA (United States)			
Not Available.			
California Proposition 65:	Not Available		
NFPA Rating:	Health:	Not available.	

#### 16. Additional Information

Revision Date: 02/08/2022 Printed Date: 02/08/2022

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.

Flammability:

Instability:

Not available. Not available.