# **AK Scientific, Inc.**

**Safety Data Sheet** (United States) 4-Oxo-4-(3,4,5-trichloro-2-thienyl)butanoic acid

1.Identification				
Product name:	4-Oxo-4-(3,4,5-trichloro-2-thienyl)butanoic acid			
Catalog#:	4671CD			
IUPAC name:	4-oxo-4-(3,4,5-trichlorothiophen-2-yl)butanoic acid			
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)

Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3), Respiratory system

## Pictogram(s)



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 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).
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

CAS#: Purity: EC:

Synonyms: 4-OXO-4-(3,4,5-TRICHLORO-2-THIENYL)BUTANOIC ACID;4-oxo-4-(3,4,5-trichlorothiophen-2-yl)butanoic acid;CTK5H9203;CHEMBRDG-BB 6539802;ZINC182893 97268-15-0 95% 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, Sulfur 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. ,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: Hands: Skin and body: Respiratory:	Not Available. Not Available. Not Available. Not Available.
9. Physical and Chemical Properties	
Physical State: Molecular Formula: Molecular Weight: Odor: pH: Boiling Point Range: Freezing/Melting Point: Flash Point: Evaporation Rate: Flammability(solid,gas): Explosive limits: Vapor Pressure: Vapor Density: Solubility: Relative Density: Refractive Index: Volatility: Auto-ignition Temperature: Decomposition Temperature:	Not available. C8H5Cl3O3S 287.5 Not available. Not available. Not available. Not available. Not available. Please see section 2. Not available. 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 chloride, Sulfur oxides.
11. Toxicological Information	

RTECS# Acute toxicity: Routes of exposure: Not available.

Not available. Inhalation,eye contact,skin contact,ingestion.

Symptoms related t toxicological charac	o the physical,chemica cteristics:	al and	blistering, pain or dr in redness, pain or se may cause irritation	sult in inflammation ing, scaling, reddening, yness. Eye contact may result evere eye damage. Inhalation of the lungs and respiratory re may result in serious illness
Carcinogenicity IARC: NTP: OSHA: Acute toxic effects:				watering, and itching. Skin dening, or, occasionally,
12. Ecological In	formation			
Ecotoxicity: Persistence and deg Bioaccumulative po Mobility in soil: Other adverse effec	otential:		Not available Not available Not available Not available Not available	2. 2. 2.
13. Disposal Cor	siderations			
Disposal of waste: Disposal of package			Not listed Not listed	
<ul> <li>14. Transportation</li> <li>DOT (United States</li> <li>UN number:</li> <li>Proper shipping nand Transport hazard cli</li> <li>Packing group:</li> <li>IATA</li> <li>UN Number:</li> <li>Proper shipping nand Transport hazard cli</li> <li>Packing group:</li> </ul>	<b>tes)</b> ne: ass: ne:		Not hazardous materi Not available. Not available. Not available. Not dangerous good Not available. Not available. Not available.	
15. Regulatory Ir	nformation			
<b>TSCA (United St</b> Not Available.	ates)			
NFPA Rating: Health: Flamma		Not Avai Health: Flammab Instability	oility:	Not available. Not available. Not available.
16. Additional In				
Revision Date: 03/1	0/2022			

# Revision Date: 03/10/2022

Printed Date: 03/14/2022

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