# AK Scientific, Inc.

Safety Data Sheet (United States) Cyclobutanecarboxylic acid

1.Identification	
Product name:	Cyclobutanecarboxylic acid
Catalog#:	F660
IUPAC name:	Cyclobutanecarboxylic 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)

Flammable liquids (Category 4) Skin corrosion (Category 1B) Serious eye damage (Category 1)

# Pictogram(s)



Signal word: Danger Hazard statement(s) H227 Combustible liquid. H314 Causes severe skin burns and eye damage. **Precautionary statement(s):** Keep away from heat/sparks/open flames/hot surfaces. No smoking. P210 P264 Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. P280 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+P310 P305+P351+P338+P310 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. P363

P370+P378	In case of fire: Use dry sand, dry chemical, CO2, water spray or
	alcohol-resistant foam for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
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#:	3721-95-7	
Purity:	>99% (GC)	
EC:	223-072-7	

# 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.

**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

CEN-certified respirator.

#### **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
2	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
1 2	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

9. Physical and Chemical Properties	
Physical State:	Liquid
Molecular Formula:	C5H8O2
Molecular Weight:	100.12
Odor:	Strong odor
pH:	Not available.
Boiling Point Range:	195°C
Freezing/Melting Point:	0°C
Flash Point:	83°C
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:	1.04
Refractive Index:	1.441-1.445
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: Possibility of hazar Conditions to avoid Incompatible mate Hazardous decomp	rdous reactions: d: rials:	Stable under recommended temperatures and pressures. Not available. Dust generation. Strong oxidizing agents. Carbon oxides.
11. Toxicologica	al Information	
RTECS#		GU1335000
Acute toxicity:		LD50 Intraperitoneal-Mouse-1270mg/kg; LD50
-		Subcutaneous-Mouse-1270mg/kg
Routes of exposure	2:	Inhalation, eye contact, skin contact, ingestion.
Symptoms related	to the physical, chemica	l Skin contact may result in inflammation characterized by
and toxicological c	haracteristics:	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.
		system. Overexposure may result in serious inness of 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:	Not available.
Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Other adverse effects:	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)			
UN number:	UN3265		
Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s. (Cyclobutanecarboxylic acid)		
Transport hazard class:	8;Corrosive		
Packing group:	III		
ΙΑΤΑ			
UN Number:	UN3265		
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15. Degulatory Information			
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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: NFPA Rating:	Not Available Health: Flammability: Instability:	3 2 0
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#### **16. Additional Information**

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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.