

SAFETY DATA SHEET

Alpha-KETOGLUTARIC ACID

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Alpha-KETOGLUTARIC ACID
Catalog Number: KET001
Recommended use: for research purposes only

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:
Serious eye damage (Category 1)

Pictogram



Signal word: Danger

Hazard statements:
H318 Causes serious eye damage.

Precautionary statement(s)
P280 Wear eye protection/ face protection.
P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes.
P310 Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Potential health effects:
Inhalation: May be harmful if inhaled
Skin: May be harmful if absorbed through skin
Eyes: Causes serious eye damage
Ingestion: May be harmful if swallowed

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
alpha-Ketoglutaric acid	328-50-7	99

Molecular Formula: C5H6O5
Molecular Weight: 146.10

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin: Flush area immediately with plenty of soap and water.
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. Get medical attention if symptoms persist.
Ingestion: Wash mouth with water.

SECTION 5 FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.
Flammable: No
Flash Point: N/A
Autoignition Temperature: N/A
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.
Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.
Storage Conditions: 4C.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed
Use adequate ventilation. Avoid dust generation.
Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.
Personal Protection: Lab coat, safety goggles, rubber gloves.
Ventilation: Use appropriate exhaust ventilation.
Respiratory protection: use OSHA/MSHA approved dust masks.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance and Odor: white powder. No odor
Melting Point: N/A
Boiling Point: 280C

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Specific Gravity: N/A
Vapor Density: N/A
Solubility: WATER

Date Prepared: Jan 1/2025
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.
Observe all federal, provincial and state laws concerning health, safety and pollution.

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure
Conditions to avoid: dust generation. Excess heat
Incompatibility: Strong oxidizing agents
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide,
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:
Not available

Epidemiology: No data available
Teratogenicity: No data available
Reproductive Effects: developmental abnormalities in Rat, and Guinea pig have been documented.
Neurotoxicity: may cause auditory nerve damage
Mutagenicity: No data available
Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:
No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

DOT (US): not regulated
IMDG: not regulated
IATA: not regulated

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed
Canada: WHMIS: E

SECTION 16 ADDITIONAL INFORMATION

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