



SAFETY DATA SHEET

Preparation Date: 01/24/2019 Revision date 01/24/2019 **Revision Number: G1**

1. IDENTIFICATION Product identifier **Product code:** KE112 **Product Name:** ALPHA-KETOGLUTARIC ACID DISODIUM SALT, ANHYDROUS Other means of identification Pentanedioic acid, 2-oxo-, disodium salt Synonyms: CAS #: 305-72-6 RTECS# SA0454700 Not available CI#: Recommended use of the chemical and restrictions on use Recommended use: No information available. Uses advised against No information available Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 Order Online At: https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Emergency telephone number Tom Tyner (USA - West Coast) **Contact Person:** Ibad Tirmiz (USA - East Coast) **Contact Person:** 2. HAZARDS IDENTIFICATION Classification This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) Label elements Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards Not available

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
alpha-Ketoglutaric Acid Disodium Salt,	305-72-6	100
Anhydrous		

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Sodium oxides.

DISODIUM SALT, ANHYDROUS

Specific hazardsMay be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available

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Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, **Personal Precautions:**

eyes and clothing. Remove all sources of ignition.

Prevent further leakage or spillage if safe to do so. Prevent product from entering **Environmental precautions**

drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Sweep up and shovel into suitable containers for disposal. Clean contaminated Methods for cleaning up

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep refrigerated. Store at 2-8 deg. C. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
alpha-Ketoglutaric Acid Disodium Salt,	305-72-6	None	None	None	None
Anhydrous					

Canada

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Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidCrystals.Beige.

Odor:TasteFormulaNo information available.No information available.C5H4O5Na2

Molecular/Formula weight (g/mole): Flammability (solid, gas)
190.06

Flashpoint (°C/°F):
No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Boiling point/range(°C/°F):

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ALPHA-KETOGLUTARIC ACID DISODIUM SALT, ANHYDROUS

No information available **Bulk density: Density (g/cm3):**

No information available
No information available

Specific gravity: ph

No information available
No information available

Vapor pressure @ 20°C (kPa):

No information available

Evaporation rate: Vapor density:

No information available
No information available

VOC content (g/L):
No information available

Viscosity:

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water):

tanol/water):

No information available

No information available

Miscibility: Solubility:

No information available
No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Avoid dust formation. Incompatible materials.

<u>Incompatible Materials:</u> Strong oxidizing agents

Hazardous decomposition

products:

Carbon oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity

Component Information

alpha-Ketoglutaric Acid Disodium Salt, Anhydrous
CAS No 305-72-6

LD50/oral/rat = 7.1 g/kg

LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

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LC50/inhalation/rat = No information available **LC50/inhalation/mouse** = No information available Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Tox = 7.1 g/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Value - Acute Tox = No information available

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available **VALUE-Gas** = No information available **VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available **VALUE - Gas =** No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

May cause eye irritation. **Eve Contact:**

Inhalation May cause irritation of respiratory tract.

May cause digestive (gastointestinal) tract irritation. Health injuries are not known Ingestion

or expected under normal use.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available. **Chronic Toxicity**

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable	Australia - Prohibited
						Carcinogenic Substances	Carcinogenic Substances

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alpha-Ketoglutaric Acid	305-72-6	Not listed					
Disodium Salt, Anhydrous							

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
alpha-Ketoglutaric Acid	305-72-6	None	None	None	None
Disodium Salt, Anhydrous					

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

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Proper Shipping Name: No information available Hazard Class No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available
No information available
No Information available
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
No information available
No information available
No information available
No information available

IATA

Product code: KE112

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
IF exposed or concerned

Product name:
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No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	Not Listed	Not present	Not present	Not present	Not listed	Present	Present 206-167-8

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous		None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

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DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
alpha-Ketoglutaric Acid Disodium	305-72-6	Present	Not Listed
Salt, Anhydrous			

Component	CAS No	CEPA Schedule I - Toxic Substances
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Component	CAS No	Concentration Limits:	Safety Phrases
alpha-Ketoglutaric Acid Disodium Salt, Anhydrous	305-72-6	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None

16. OTHER INFORMATION

Preparation Date: 01/24/2019
Revision date 01/24/2019
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular

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End of Safety Data Sheet

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