



ARIZONA'S BEST ALKA-LICHE

1. Identification

Product identifier: ARIZONA'S BEST ALKA- LICHE
 Soil Conditioner & Fertilizer, 7-0-0

Recommended use: Soil conditioner for hard caliche soils

Company: Western Organics
 PO Box 25406
 Tempe, AZ 85285-5406
 602-792-0275

In case of emergency call: 800-424-9300 (Chemtrec), 800-222-1222 (Poison Control)

2. Hazards Identification

Signal word: Caution

Classification:

Health	Environmental	Physical
Acute toxicity – Oral – Category 4 Skin Irritation – Category 2 Eye Irritation – Category 2A	Not applicable	Not applicable

Pictogram:



Hazard Statements:

- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.

Precautionary Statements:

Prevention:

- Wash hands and skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves, eye and face protection.

Response:

- If swallowed: Call a poison control center or doctor if ingested.
Rinse mouth.
- If on skin: Wash with plenty of water.
See product label and SDS for specific first aid treatment.
- If skin irritation occurs: Get medical advice or attention.
Take off contaminated clothing and wash it before reuse.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If irritation persists: Get medical advice or attention.

Storage:



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Not applicable

Disposal:

Dispose of contents and container in accordance with the product label and SDS.

3. Composition/Information on Ingredients

Chemical Ingredients:	%:
Total Nitrogen (N)	7
From UREA (CAS #: 57-13-6) and Ammonium Nitrate (CAS #: 6484-52-2)	
Iron (Fe)	.10
From Ferrous Sulfate (CAS #: 7720-78-7)	
Zinc (Zn)	.10
From Zinc Sulfate (CAS #: 7733-02-0)	
Sulfur (S)	8
From Sulfuric Acid (H ₂ SO ₄) (CAS #: 7664-93-9), pH .25, 19.50%	

4. First Aid Measures

- If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.
- If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergencies, call the poison control center 1-800-222-1222.

Symptoms of over-exposure:

- Inhalation: May cause pulmonary irritation, irritation of mucous membranes, coughing, and a sore throat.
- Skin or eyes: May cause severe irritation, eye and skin burns.
- Ingestion: Though not an anticipated route of exposure, may cause burning and irritation to mouth, throat, esophagus, and other tissues of the digestive system.

Effects of long-term (chronic) exposure: None known

Conditions aggravated by overexposure: Pre-existing skin, eye and respiratory disorders.

5. Fire Fighting Measures

- Hazardous decomposition products: None known
- Flammable properties: Not flammable
- Unusual fire and explosion properties: None known



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Extinguishing media: Water spray, foam, CO₂, dry chemical
Fire fighting instructions: Fire responders should wear eye protection and self-contained breathing apparatus (SCBA) and full protective equipment. Prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. Accidental Release Measures

In case of spill or leak: Uncontrolled releases should be responded to by trained personnel. Proper protective equipment should be used. In case of spill, clear the affected area, protect people and respond with trained personnel.

Disposal: Dispose according to Section 13 and product label.

7. Handling and Storage

Handling: This material is a harmful liquid. Wear chemically resistant protective equipment during handling. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Avoid contact with incompatible materials. Use caution when opening cap. Keep containers tightly closed when not in use. Wash thoroughly after handling.

Storage: Store in a cool, dry, well ventilated area away from direct sunlight, sources of intense heat or where freezing is possible. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

8. Exposure Controls and Personal Protection

Ventilation and engineering measures: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL.

Respiratory protection : Not required under normal conditions of handling. In the event of an accidental discharge of the material which produces a heavy vapor or mist, workers should use respiratory protection. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.

Skin protection: Use appropriate gloves for work situation. Advice should be sought from glove suppliers.

Eye / face protection: Safety glasses or chemical splash goggles.

Other protective equipment: Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene: Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, use tobacco or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, using tobacco or use of toilet facilities. Remove soiled clothing



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and wash it thoroughly before reuse. Do not take contaminated clothing home.

Permissible exposure levels:

	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Sulfuric acid	1 mg/m ³	10 mg/m ³	1 mg/m ³	3 mg/m ³

9. Physical and Chemical Properties

Appearance: Cloudy liquid

Odor: Sulfur smell

Odor threshold: N/Av

pH: N/Av but product is acidic.

Melting point/Freezing point: N/Av

Initial boiling point and boiling range: N/Av

Flash point: N/Av

Evaporation rate: N/Av

Flammability: Not flammable

Upper/lower flammability and explosive limits: N/Av

Vapor pressure: N/Av

Vapor density: N/Av

Bulk density: 10 lbs/gal

Specific gravity: N/Av

Solubility(ies): N/Av

Partition coefficient (n-octanol/water): N/Av

Auto-ignition temperature: N/Av

Decomposition temperature: N/Av

Viscosity: N/Av

N/Av = Not available

N/Av = Not applicable

10. Stability and Reactivity

Stability: Stable under normal storage and handling conditions.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid exposure and contact to extreme temperatures and incompatible chemicals.

Hazardous decomposition: Thermal decomposition products of this solution can include CO, CO₂, and oxides of sulfur.

Incompatible materials: This product reacts with bases, reducing agents, alkali metals, carbides, cyanides, sulfides and metal powders. Do not mix this product with sodium hypochlorite, sodium bisulfate, chlorine sanitizers, or chlorinated cleaners – a deadly gas can be formed.



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11. Toxicological Information

Target organs: Eyes, skin, respiratory system, digestive system.
Routes of exposure: *Inhalation*: YES *Skin absorption*: NO *Skin & Eyes*: YES *Ingestion*: YES
Toxicological data: Not available.
Carcinogenic status: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects: Not expected to have reproductive effects.
Teratogenicity : Not expected to cause teratogenic effects.
Mutagenicity: Not expected to cause mutagenic effects.

12. Ecological Information

No data available.

13. Disposal Consideration

Consult federal, state and local regulations and disposal authorities.

14. Transportation Information

Contact Western Organics for transportation information.

15. Regulatory Information

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

SARA TITLE III:

Extremely Hazardous Substance Notification (Sec. 302):

Sulfuric Acid CAS #: 7664-93-3, 19.5%

Hazard Categories (Sec. 311/312):

Immediate (acute) health hazard

Toxic Chemicals Notifications (Sec. 313):

Not applicable

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer and/or reproductive harm.

16. Other Information

Disclaimer/Statement of Liability: The information in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SDS Preparation Date: August 31, 2015

Revision Date:

Revision Reason: