

**Material Safety Data Sheet**

In case of emergency call:  
1-800-424-9300 or  
(928)783-3803



The Dune Company of Imperial  
P.O. Box 967  
Imperial, California 92251  
Phone: (760) 352-0314

**1. Chemical Identification**

**Product Name:** 10-13-0-12S  
**EPA Signal Word:** None  
**Active Ingredient (%):** 10-13-0-12S  
**Chemical Name:** Not applicable  
**Chemical Class:** Inorganic Acid Compound  
**CAS Number:** Not applicable

**2. Composition/Information on Ingredients**

<u>Chemical Ingredients:</u>	<u>Weight %</u>	<u>TWA mg/m<sup>3</sup></u>	<u>STEL mg/m<sup>3</sup></u>	<u>Ceiling mg/m<sup>3</sup></u>
Phosphoric Acid CAS#: 7664-38-2	25		3	
Monocarbamide Dihydrogen Sulfate CAS#: 21351-39-3	53.75		None Established	
Sulfuric Acid CAS#: 7664-93-9	5	1	3	

**3. Hazards Identification**

**Ingestion:** Ingestion may result in irritation and burning of mucous membranes and/ or gastrointestinal tract.  
**Inhalation:** Inhalation of acid mist may produce mild to severe irritation of respiratory tract.  
**Eye Contact:** Will produce severe irritation. Prolonged contact may result in burn to eye causing permanent damage  
**Skin Absorption:** May produce mild to severe irritations. Prolonged contact may result in chemical burns.  
**Skin Contact:** May produce mild to severe irritations. Prolonged contact may result in chemical burns.  
**Effects of Overdose:** Severe conjunctivitis which may result in permanent damage. Can result in nausea and vomiting with server abdominal pain. Prolonged contact with acid mist can result in severe respiratory irritation.

**4. First Aid Measures:**

**Ingestion:** Dilute with 2-3 glasses of water. **DO NOT INDUCE VOMITING.**  
**Inhalation:** Remove person to fresh air. If person is not breathing, perform artificial respiration if properly trained.  
**Eyes:** Promptly flush eyes with clean, cool water for at least 15 minutes.  
**Skin:** Promptly remove contaminated clothing and rinse area with clear water for 15 minutes.  
**ALWAYS CONTACT A PHYSICIAN FOR FURTHER TREATMENT.**

**5. Fire Fighting Measures**

**Flammable Properties:** This fertilizer is a nonflammable liquid. It will not support combustion in its normal state.  
**Unusual Fire & Explosion Hazards:** This material will vigorously decompose releasing carbon dioxide if heated above 230 - 300° F. Closed containers exposed to extreme heat can rupture due to pressure buildup. Contact with common metals can generate hydrogen, which can form flammable mixtures with air.  
**Extinguishing Media:** Use that which is appropriate for surrounding fire.  
**Fire Fighting Instructions:** Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage. In addition, wear other appropriate protective equipment as conditions warrant (see section 8). Isolate damage area, keep unauthorized personnel out.

**6. Accidental Release Measures:**

**In Case of Spill or Leak:** Steps should be taken in case material is released or spilled. If uncontaminated, collect and reuse as product. If contaminated with other materials, collect in suitable containers after product has been diluted 3 to1 with water, and neutralized with sodium bicarbonate or sodium carbonate.  
**Waste Disposal Method:** Dispose in accordance with applicable federal, state, and local regulations.

**7. Handling and Storage**

**Stability:** Stable under all normal conditions.  
**Storage:** Store only in approved containers. Prolonged storage in mild steel is not recommended.  
**Hazardous Polymerization:** Will not occur.

**8. Exposure Controls/Personal Protection**

**Ingestion:** Do not ingest.  
**Eye Contact:** Tight fitting goggles are recommended to reduce possible exposure to the eyes from splashing and/or accidental spillage.  
**Skin Contact:** Protective chemical gloves to reduce possible skin exposure.  
**Inhalation:** A NIOSH/MSHA approved air purifying respirator with a dust/mist filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see section 2).  
**Other Protective Equipment:** Eye wash and quick-drench shower facilities should be available in the work area.  
**Applicators/Handlers:** Tight fitting goggles and chemical gloves are recommended when handling product.

### 9. Physical and Chemical Properties

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<b>Appearance:</b>	Green, Opaque Liquid
<b>Odor:</b>	None
<b>Melting Point:</b>	Not applicable
<b>Boiling Point:</b>	>230° F
<b>Specific Gravity/Density:</b>	1.5 - 1.6
<b>pH:</b>	<2.0
<b>Solubility in H<sub>2</sub>O:</b>	Complete
<b>Vapor Pressure:</b>	Unknown

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### 10. Stability and Reactivity

#### Reactivity

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<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	None
<b>Conditions to Avoid:</b>	Heating above 230° F.
<b>Hazardous Decomposition Products:</b>	If involved in a fire, oxides of carbon, sulfur, and nitrogen may be generated

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### 11. Toxicological Information

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<b>Acute Toxicity/Irritation Studies:</b>	NONE
<b>Ingestion:</b>	Ingestion may result in irritation and burning of mucous membranes and/ or gastrointestinal tract.
<b>Dermal:</b>	May produce mild to severe irritations. Prolonged contact may result in chemical burns.
<b>Inhalation:</b>	Inhalation of acid mist may produce mild to severe irritation of respiratory tract.
<b>Eye Contact:</b>	Will produce severe irritation. Prolonged contact may result in burn to eye causing permanent damage

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### 12. Ecological Information

None Listed

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### 13. Disposal Considerations

Consult state and local regulations and disposal authorities.  
Neutralize with limestone or soda ash.

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### 14. Transportation Information

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<b>Shipping Name:</b>	RQ Corrosive Liquid, Acidic, Inorganic,(contains sulfuric acid, phosphoric acid), 8, UN3264, P.G.III.
<b>Hazard Class:</b>	8
<b>Reportable Quantity (RQ):</b>	
<b>Labels Required:</b>	Corrosive
<b>Placard:</b>	Corrosive
<b>Hazardous Waste Number:</b>	
<b>EPA Register Number:</b>	None

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### 15. Regulatory Information

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<b>SARA Title III Classification:</b>	Not Regulated
<b>Proposition 65:</b>	Not applicable
<b>CERCLA Reportable Quantity (RQ):</b>	None
<b>RCRA Classification:</b>	Not applicable
<b>TSCA Status:</b>	Not applicable

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### 16. Other Information

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<b>Flammability:</b>	Non Flammable Liquid
<b>Hazard Rating (N.F.P.A.):</b>	
<b>Health:</b>	3
<b>Fire:</b>	0
<b>Reactivity:</b>	2
<b>Specific:</b>	Avoid contact with oxidizing agents

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