

#88164 & 88166

MATERIAL SAFETY DATA SHEET

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Section I. Product Identification

Product Name: OLIVINE SAND **CAS Number:** 1317-71-1
Chemical Name: Magnesium Iron Silicate. **Formula:** (Approx.) $(Mg,Fe)_2SiO_4$
Description: Inorganic naturally-occurring silicate mineral.
DOT Identification: Not regulated by DOT.

Section II. Hazardous Ingredients

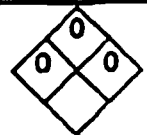
	%	CAS. NO.
Nickel Compounds as Nickel [EPA Hazard Category: Health (Chronic)]	0.1 - 0.3	7440-02-0
Chromium Compounds as Chromium [EPA Hazard Category: Health (Chronic)]	0.1 - 0.4	7440-47-3
(Note: Hexavalent chrome content is not detected at 0.1% level)		

Section III. Physical Data

Fusion Range: 2800 - 3200°F **Specific Gravity:** ($H_2O = 1$) - 3.2 - 3.6
Vapor Pressure: mm Hg - N.A. **Percent Volatile:** N.A.
Solubility in Water: Insoluble.
Appearance & Odor: Odorless, light green to brown granules, 10 to 180 mesh.

Section IV. Fire and Explosion Hazard Data

OLIVINE SAND is an inorganic mineral. It is non-flammable and non-hazardous.



NFPA Code

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The information, data, and recommendations contained herein are believed to be accurate. ADMCOR makes no warranty of any kind whatever with respect thereto and disclaims all liability from reliance thereon.

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Section V. Reactivity Data

Stability: OLIVINE SAND is stable.
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to avoid): None.

Section VI. Health Hazard Data

OSHA PEL: 5 mg/m³ (Respirable) ACGIH-TLV: 10 mg/m³
Routes of Entry: Lungs (breathing) - Yes Ingestion - No Skin - No
Carcinogen: OSHA - No NTP - Yes IARC - Yes

This product contains less than 0.3% of Nickel and 0.4% of Chromium. Nickel and hexavalent chromium are classified as carcinogens. Hexavalent chromium has not been detected in this product.* Under OSHA guidelines any product containing 0.1% or more of a "known" carcinogen must be classified as a carcinogen for hazard communication purposes. This is not an assessment of risks. It is believed that if the PEL is not exceeded and recommended precautions are followed that this product will not be a health hazard.

Crystalline silica is known to cause silicosis and is also classified as a carcinogen for hazard communication purposes. This product does not contain 0.1% or more crystalline silica.

(* Detection limit Cr⁺⁶ - 0.1%)

Effects of Overexposure:

Short Term: No effect other than as a nuisance dust.
Long Term: As with any nuisance dust, long-term exposure to dust concentrations higher than recommended Permissible Exposure Limits may cause delayed lung injury.

Toxicity Data:

Inhalation - Does not cause a fibrotic reaction in the lung as does silica.
Oral - Rat LD₅₀: Greater than 6000 mg/kg.
Skin - Rabbit, 0.5 grams/site - Non-corrosive.

First Aid: Eyes - Flush thoroughly with water. See a physician if discomfort persists.
Skin - Wash thoroughly with water.

Section VII. Spill, Leak and Disposal Information

Steps To Be Taken In Case Material Is Released Or Spilled: If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

Waste Disposal Method: Can be disposed of in an approved disposal facility, in accordance with applicable federal, state, and local regulations. The nature and extent of contamination, if any, may require use of specialized disposal methods.

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Section VIII. Special Protection Information

Respiratory Protection: If dust concentrations exceed recommended Permissible Exposure Limits, use NIOSH-approved dust respirators, with approval TC-21C-xxx, until feasible engineering controls are completed.
Ventilation: Local exhaust or other ventilation that will reduce dust concentrations to less than Permissible Exposure Limits is recommended.
Eye Protection: If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.
Other Protective Equipment: Optional.

Section IX. Special Precautions

None.

Section X. SARA Title III Information

Section 302: Applies: No	TPQ: N.A.	EHS: No
Section 304: Applies: No:	EHS R.Q.: N.A.	CERCLA R.Q.: N.A.
Section 313: Toxic Release Reporting		
Applies: To: Nickel Compounds	RCRA Number: N.A.	
Applies: To: Chromium Compounds	RCRA Number: N.A.	

This product and/or its components are on the Toxic Substances Control Act Inventory.

- Notes: (1) Under CERCLA, releases to air, land or water which exceed the RQ must be reported immediately to the National Response Center, (800) 424-8802.
- (2) Section 302 substances exceeding the TPQ must be reported annually on Tier I or Tier II forms to SERC, LEPC and local fire departments by March 1 (annually).
- (3) Section 313 substances used in production or manufacturing (25,000 pounds or more annually) or otherwise used (10,000 pounds or more annually) must be reported to the EPA on a Toxic Release Inventory (Form R) by each July 1.

Abbreviations:

N.A.: Not Applicable	N.E.: None Established	UNK: Unknown
R.Q.: Reportable Quantity	TPQ: Threshold Planning Quantity	
LEPC: Local Emergency Planning Committee	SERC: State Emergency Response Commission	
EHS: Extremely Hazardous Substance	SARA: Superfund Amendments and Reauthorization Act	
CERCLA: Comprehensive Environmental Response, Compensation and Liability Act	RCRA: Resource Conservation and Recovery Act	