

THE NUGENT SAND COMPANY, INC.

MATERIAL SAFETY DATA SHEET

Revised Mar. 4, 2005

SECTION I

Product Name: Inland Sand - All Grades
 Manufacturer's Name: The Nugent Sand Company, Inc.
 Address: 4912 Russell Rd., Muskegon MI 49445
 Emergency Telephone No.: 231-755-1686
 Manufacturer's D-U-N-S No.: 00-777-6230
 Hazardous Material Description: Silica Sand
 Chemical Family: Natural Mineral Extracted from Earth
 Formula: SiO₂ approximately 95%
 CAS # 14808-60-7

SECTION II - INGREDIENTS

Chem. Formula	Chemical Name	%wt	PEL TWA as res. Dust
SiO ₂	Silicon Dioxide	94.68	0.1mg/M3
Al ₂ O ₃	Aluminum Oxide (Granular)	2.66	10mg/M3
K ₂ O	Potassium Oxide	1.29	not est.
Na ₂ O	Sodium Oxide	0.51	2mg/M3
CaO	Calcium Oxide	0.35	5mg/M3
Fe ₂ O ₃	Iron Oxide	0.24	10mg/M2
MgO	Magnesium Oxide	0.23	10mg/M3
TiO ₂	Titanium Dioxide	0.03	10mg/M3

SECTION III - PHYSICAL DATA

Boiling Point: None
 Percent Solid by Weight: 100
 Percent Volatile by Volume: None
 Solubility in Water: None
 Appearance and Odor: Light Tan Grain - No odor
 Specific Gravity(H₂O = 1): 2.65
 Vapor Density(Air = 1): None
 Evaporation Rate: None
 pH: 8.3

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: None
 Extinguishing Media: None
 Special Fire Fighting Procedures: None
 Unusual Fire and Explosion Hazards: None

SECTION V - HEALTH HAZARD DATA

Silica:
 Primary Route of Entry: Inhalation
 Reports of carcinogenicity: IARC:Yes NTP:Yes OSHA:No
 Crystalline Silica-Quartz: IARC 2A, IARC monographs, Supplement; Vol. 7, pg. 341 1987; NTP 6th Annual Report(Sup. Data)
 Inhalation may result in shortness of breath, coughing and reduced pulmonary function.
 Effects of Overexposure: Repeated inhalation of respirable dust for extended periods of time may cause permanent injury to lungs, silicosis. May cause eye irritation.

Aluminum Oxide(granular)
 Primary Route of Entry: Inhalation
 Inhalation may result in shortness of breath, coughing and reduced pulmonary function.
 Effects of Overexposure: May cause damage to the respiratory tract, fibrosis. May cause eye/skin irritation.

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SECTION VI - FIRST AID MEASURES

Silica:

Inhalation: Remove to fresh air, if breathing difficulties persist, see a physician.

Eyes: Flush with water, if irritation persists, see a physician.

Aluminum Oxide(granular)

Inhalation: Remove to fresh air, if breathing difficulties persist, see a physician.

Skin: Wash with soap and water, if irritation persists, see a physician.

Eyes: Flush with water, if irritation persists, see a physician.

SECTION VII - REACTIVITY DATA

Stability: Material is stable

Incompatibility(materials to avoid): None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Clean up by recommended dustless methods, water or vacuum. Limit exposure so that it does not exceed OSHA standard TLV.

Waste Disposal Method: Same as any inert waste.

Volatile Organic Compound(as packaged, minus water): None

SECTION IX - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Dust respirator in compliance with OSHA Std. 29CFR1910.134

Ventilation: Local Exhaust(specify rate) Follow OSHA Standard
Mechanical(specify rate) Follow OSHA Standard

Protective Gloves: as required

Eye Protection: as required

Other Protective Equipment: as required to meet applicable OSHA standards

SECTION X - SPECIAL PRECAUTIONS

Handling and Storage: Use dustless systems for handling and storage.

Clean up so that exposure does not exceed OSHA standard TLV.

Other Precautions: Practice good housekeeping, maintain and test equipment. Post work areas warning of effects of overexposure. Follow OSHA standards.
