



MATERIAL SAFETY DATA SHEET

MSDS-0178
FSB-A-20, 34
REV. DATE: 6/9/93

SECTION 1 - IDENTIFICATION

PRODUCT (TRADE) NAME: Aluminum Oxide Replacement Sand

CHEMICAL FAMILY: Refractory Oxide

SUPPLIER: OMEGA ENGINEERING INC.
PO BOX 4047
STAMFORD, CT 06907

DATE PREPARED: 6/15/90
SUPERSEDES:

TELEPHONE: (203) 359-1660

SECTION 2 - COMPOSITION

Chemical Name	%	Common Name	REG.* (Y/N)	CAS #	OSHA Permissible Exposure Limit	ACGIH TLV	Carcin- ogen* (Y/N)
Alpha Alumina (Aluminum Oxide) (Al ₂ O ₃)	96	Aluminum Oxide	Y	1344-28-1	10 mg/m ³	10 mg/m ³	N
Titanium Oxide (TiO ₂)	3	Titania	Y	13463-67-7	10 mg/m ³	10 mg/m ³	N

*Materials are regulated by OSHA 29 CFR 1910.1200. Hazard Communication Standard, and/or the Massachusetts General Law Chapter 111F, Right to Know Regulations.

SECTION 3 - PHYSICAL AND CHEMICAL DATA

Boiling Point: NAIF Melting Point: 1900°C Specific Gravity: 3.9
Vapor Pressure: NAIF Percent Volatile by Vol: NAIF Vapor Density: NAIF
Evaporation Rate: NAIF Solubility in Water: Insoluble Solubility in Alcohol: Insoluble
Solubility in Other Solvent: NAIF

Appearance and Odor: Granular; Gray Brown to Red Brown; No Odor

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: NAIF Method Used: N/A Flammable Limits: LEL N/A UEL N/A
Extinguishing Media: NAIF
Special Fire Fighting Procedures: None
Explosion Potential: None



MATERIAL SAFETY DATA SHEET

MSDS-0178
 FSB-A-20, 34
 REV. DATE: 6/9/93

SECTION 5 - HEALTH, FIRST AID AND MEDICAL DATA

Primary Route(s) of Entry	Acute and Chronic Health Effects and Effects of Overexposure	First Aid and Medical Information
Inhalation: (Dust)	Acute: May cause coughing, shortness of breath. Chronic: May affect breathing capacity.	Remove to fresh air. Apply artificial respiration as needed. Obtain first aid or medical assistance.
Ingestion:	No known adverse effects, but ingestion not recommended.	Obtain first aid or medical assistance, if needed.
Skin — Contact & Absorption:	Not absorbed through skin: may cause abrasions.	Obtain first aid or medical assistance, if needed.
Eye: (Dust)	May irritate eyes.	Wash with large amounts of water. Obtain first aid or medical assistance, if needed.
Other Potential Health Risks:	None known	N/A

SECTION 6 - CORROSIVITY AND REACTIVITY DATA

Stability:	Stable
Polymerization:	Will Not Occur
Incompatibility (Materials to Avoid):	Inert
Decomposition Products:	None
Conditions to be Avoided:	Inert

SECTION 7 - STORAGE, HANDLING AND USE PROCEDURES

Normal Storage and Handling: Handle with adequate ventilation for nuisance dust. See OSHA 29 CFR 1910.94 (Ventilation) and 29 CFR 1910.1000 (Air Contaminants).

Normal Use: Handle with adequate ventilation for nuisance dust. See OSHA 20 CFR 1910.94 (Ventilation) and 29 CFR 1910.1000 (Air Contaminants).

Steps to be Taken in Case of Leaks or Spills: Normal Cleanup Procedures. Respirators may be required.

Waste Disposal Method: Standard landfill methods consistent with applicable Federal, State and local laws.

