MATERIAL SAFETY DATA SHEET

Section 1. Identification

Company Name: Keystone Industries
Address: 616 Hollywood Av
Cherry Hill, NJ 08002

Emergency number: (800) 535-5053
Information number: (856) 663-4700
Date prepared: **6-05-03**
Review Date: 8-31-06

Product Name: **Aluminum Oxide White, Alumina**

Section 2. Composition/Identity Information

Component	CAS Number	OSHA - PEL	ACGIH - TLV	Percent
Aluminum Oxide [1]	1344-28-1	15 mg/m^3 respirable fraction	10 mg/m^3 TWA respirable fraction	94 - 99

Other Oxides total less than 1%

[1] Non-fibrous form of aluminum oxide

PEL means OSHA Permissible Exposure Limit
TLV means American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value
TWA means 8 hour Time Weighted Average

Section 3. Physical and Chemical Data

Boiling Point: N/A
Melting Point: 2070^{o}C
Solubility in Water: Insoluble
Vapor Density: N/A
Vapor Pressure: N/A
Solubility in Other Solvent: N/A
Specific Gravity: 3.95
Evaporation rate: N/A
Appearance and odor: White; granular to powder; odorless

Section 4. Fire and Explosion Data

Flash Point: None
Autoignition Temperature: Will not burn
Flammable Limits: LEL: N/A UEL: N/A
Extinguishing Media: Will not burn. May be used to extinguish fires.
Special Fire Fighting Procedures: None. Will not burn.
Unusual Fire and Explosion Hazards: None

Section 5. Reactivity Data

Stability: Stable
Conditions to Avoid: None
Materials to Avoid: None
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur

Section 6 Health Hazard Data

Ingestion: No known adverse effects for normal, incidental ingestion
Eye Contact: May cause abrasion and irritation
Skin Contact: Not absorbed through the skin. May cause abrasions.
Inhalation: May cause coughing or shortness of breath. Chronically may affect breathing capacity.

Section 7. First Aid Measures

Inhalation: If there is gross inhalation of dust causing coughing and shortness of breath, remove victim to fresh air. If breathing has stopped, perform artificial respiration. Seek medical attention.
Ingestion: If large amounts are swallowed, get medical attention.
Eye Contact: Flush eyes with large amounts of water. If irritation persists, get medical attention.
Skin Contact: Wash with soap and water. Obtain first aid or medical assistance as needed.

Section 8. Storage, Handling, and Use Protection Information

Normal Storage and Handling: Avoid breathing dust. Use adequate ventilation and dust collection. Avoid breakage of bagged material and spills of bulk material. Use good housekeeping to prevent accumulation of dust in work area. Avoid creation of respirable dust.
See OSHA Hazard Communication Standard 29 CFR 1910-94 (Ventilation).
Ventilation: Use sufficient local mechanical exhaust as required to maintain level of respirable dust below the Permissible Exposure Limit or Threshold Limit Value.
See ACGIH "Industrial Ventilation - A Manual for Recommended Practice" (latest edition).
Respiratory Protection: Use appropriate NIOSH approved respiratory protection for respirable dust if PEL or TLV are exceeded.
See OSHA (29CFR 1910.134) and MSHA (30 CFR Parts 56 and 57) and NIOSH "Respirator Decision Logic".
Eye Protection: Safety glasses with side shields or goggles recommended.
Protective Gloves: Not normally necessary.
Other Protective Equipment/Clothing: As appropriate for the work environment.
Cleanup and Spill Information: Collect using dustless methods (HEPA vacuum or flush with water) to minimize generation of airborne respirable dust.
Waste Disposal Method: If uncontaminated, approved for disposal as an inert, non-metallic mineral in accordance with federal, state, and local regulations. If contaminated, the user must assess the proper disposal for the material appropriate for the contamination.

Section 9. Other Regulatory Information

U.S. Department of Transportation: Aluminum Oxide is NOT a hazardous material for purposes of transportation. US DOT Table of Hazardous Materials, 49CFR 172.101.
Resource Conservation and Recovery Act: Aluminum Oxide is NOT classified as a hazardous material under RCRA or its regulations, 40 CFR 261.
Toxic Substances Control Act: Aluminum Oxide is ON the EPA TSCA Inventory under CAS #1344-28-1.
Comprehensive Environmental Response Compensation and Liability Act: Aluminum Oxide is NOT classified as a hazardous substance under CERCLA regulations, 40 CFR 302.
Superfund Amendents and Reauthorization Act (SARA) Emergency Planning and Community Right to Know Act: Aluminum Oxide is NOT an extremely hazardous substance in Section 302 and is NOT a toxic chemical subject to the requirements of Section 313.
Canadian Environmental Protection Act: Aluminum Oxide is ON the Canadian Domestic Substances List (DSL).

National Fire Protection Association (NFPA) Hazard Rating:
Health: 1 Fire: 0 Reactivity: 0
Hazardous Material Information System (HMIS) Hazard Rating:
Health: 1 Flammability: 0 Reactivity: 0 Protective Equipment: A

Note: The information contained in this Material Safety Data Sheet is taken from sources believed to be accurate and correct. Keystone Industries makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by purchase, resale, use, or exposure to our product. Customers/users of the product must comply with all federal, state, and local laws and regulations.

NAIF= No applicable information found N/A= Not applicable