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MSDS of Aluminum Oxide Powder

SECTION 1 – PRODUCT

Product/Material: AL-602/603/604/605/610/612
Product Name: Aluminum Oxide Powder
CHEMICAL FORMULA: Al_2O_3
CAS NUMBER: 1344-28-1

SECTION 2 – COMPOSITION/IDENTITY INFORMATION

<u>Component</u>	<u>CAS Number</u>	<u>OSHA – PEL</u>	<u>ACGIH – TLV</u>	<u>Percent</u>
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 °C
Solubility in Water: Insoluble
Solubility in Other Solvent: N/A
Appearance and Odor: White; granular to powder; odorless
Vapor Density: N/A
Vapor Pressure: N/A
Specific Gravity: 3.95
Evaporation rate: N/A

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 Amendments 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

SECTION 10 – OTHER INFORMATION

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