

**MATERIAL
SAFETY
DATA SHEET**

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: ALUMINUM OXIDE **STOCK NO:** D675
DOT HAZARD LABEL: None **UN NUMBER:** None
PROPER SHIPPING NAME: None **DATE PREPARED:** 10/25/02
NFPA CODES: HEALTH - 1 FLAMMABILITY - 0 REACTIVITY - 0

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>HAZARDOUS COMPONENTS</u>	<u>CAS NUMBER</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Aluminum oxide (Fused White Alpha Alunina)	1344-28-1	10 mg/m ³	10 mg/m ³	

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS

MELTING POINT: +3600° F **SPECIFIC GRAVITY (H₂O = 1):** 3.9
VAPOR PRESSURE: NA **PERCENT VOLATILES:** 0%
VAPOR DENSITY (Air = 1): NA **EVAPORATION RATE (Butyl Acetate = 1):** NA
APPEARANCE AND ODOR: White, odorless fine powder.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TCC): NA **FLAMMABLE LIMIT (air, % by vol.)** **UPPER:** NA **LOWER:** NA
EXTINGUISHER MEDIA: Non-flammable; does not support combustion. Not an explosion hazard.
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE & EXPLOSION HAZARDS: None

SECTION V - REACTIVITY DATA (PHYSICAL HAZARDS)

STABILITY: ☒ STABLE ☐ UNSTABLE
CONDITIONS TO AVOID: None

INCOMPATIBILITY (Materials to avoid): Reacts violently with chlorine trifluoride, producing flames. Ethylene oxide polymerizes violently when in contact with pure aluminum oxide. Also incompatible with hot chlorinated rubber, acids, and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products will produce aluminum oxide.

HAZARDOUS POLYMERIZATION: ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID:

MATERIAL SAFETY DATA SHEET (continued)

PRODUCT NAME:

ALUMINUM OXIDE

STOCK NO:

D675

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☒ EYES ☐ SKIN ☒ INHALATION ☐ INGESTION

HEALTH HAZARDS (Acute & Chronic): Non-toxic, nuisance dust. OSHA classifies this material as Particulate, Not Otherwise Classified. Eyes, Skin and Respiratory Tract may be irritated by gross overexposure to Particulate, Not Otherwise Classified, no matter how they are generated. Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation.

SIGNS & SYMPTOMS OF EXPOSURE: NA

CARCINOGENECITY:

☐ No NTP?

☐ No IARC MONOGRAPHS?

☐ No OSHA?

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Treat as nuisance dust. Get medical help if discomfort persists.

EYES: Flush with water for 15 minutes, including under eyelids. Get medical attention if discomfort persists.

SKIN: Wash with soap and water. No evidence of adverse effects.

INGESTION: Non-toxic. Rinse mouth out with water. Call doctor if amount was large.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: None

OTHER PRECAUTIONS: None

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up to avoid slipping hazard. Keep airborne particulate at a minimum when cleaning up spills.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): Waste may be considered as inert material. Disposed of in landfill or incinerated. Follow Federal, State, and Local regulations for disposal.

SECTION VII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION: Nuisance dust type if needed.

VENTILATION: Use with adequate ventilation to meet exposure limits.

PROTECTIVE GLOVES: None

EYE PROTECTION: Safety-glasses with side shields or goggles to prevent dust and particles from entering the eye.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK/HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.