

CRYSTAL MARK, INC.

A **SWAN** Technologies Corporation
613 Justin Avenue • Glendale, CA 91201
Tel: (818)-240-7520 • Fax: (818)-247-3574
www.crystalmarkinc.com • E-mail: sales@crystalmarkinc.com

MATERIAL SAFETY DATA SHEET

Flammability: 0
Health: 0
Reactivity: 0
Hazard: 0
Rating consistent with NFPA code: 0

SECTION I - PRODUCT IDENTIFICATION

Trade Name: Aluminum Oxide
Date Prepared: 05-14-09
Manufacturer's Name: **CRYSTAL MARK, INC.**
613 Justin Avenue
Glendale, CA 91201
Phone Number: (818) 240-7520

SECTION II – INGREDIENTS

Chemical Names: Refractory Oxide (Al₂O₃) @ 96.3% Titanium Oxide (TiO₂) @ 2.8%
Impurities @ 1.5% (SiO₂ + Fe₂O₃ + Cao + MgO + Na₂O + K₂O)
CAS Numbers: 1344-28-1 (Al₂O₃), 13463-67-7 (TiO₂)

SECTION III - PHYSICAL DATA

Boiling Point: NAIF
Melting Point: 1900°C
Specific Gravity: 3.95
Vapor Pressure: NAIF
Vapor Density: NAIF
Evaporation Rate (Butyl Acetate=1): NAIF
Solubility in Water: Insoluble
Solubility in Alcohol: Insoluble
Appearance and Odor: Granular, gray brown to red brown, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: NAIF
Auto Ignition Temperature: N/A
Flammable Limits: LEL: N/A UEL: N/A
Extinguishing Media: N/A
Special Firefighting Procedures: None
Unusual Fire and Explosion Hazards: None

SECTION V - HEALTH HAZARD DATA

Effects of Overexposure [Conditions to Avoid]:
Inhaled - May cause coughing, shortness of breath.
Exposure Limits in Air- (ACGIH) TLV 10mg/m³ (OSHA) PEL: 15mg/m³
Contact with Skin and Eyes - May irritate eyes
Absorbed through Skin - Not absorbed, may cause abrasion.
Swallowed - No known adverse effects, ingestion not recommended.
Health Effects or Risk from Exposure:
Acute - May cause shortness of breath.

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Chronic - May affect breathing capacity.

Emergency and First Aid Procedures:

Eye Contact - Wash with large amount of water, obtain first aid if needed.

Skin Contact - Obtain first aid if needed.

Inhaled - Remove to fresh air, apply artificial respirator if needed.

Swallowed - Obtain first aid if needed.

Suspected Cancer Agent: No

SECTION VI - REACTIVITY DATA

Stability: STABLE

Conditions to avoid: NAIF

Incompatibility (materials to avoid): NAIF

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: NAIF

SECTION VII - SPILL OR LEAK PROCEDURES

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

Normal clean up procedures, respirators may be required.

Waste Disposal Method: Disposal must be made in accordance to Federal, State and Local Regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: As needed, approved dust respirator, see OSHA 29CFR1910.134

Ventilation: Handle with adequate ventilation for nuisance dust.

Protective Gloves: As desired

Eye Protection: Recommended, see OSHA 29CFR1910.133

Other Protective Equipment: NAIF

Protective Measures During Maintenance of Contaminated Equipment: See sections VII and VIII

SECTION IX - TRANSPORTATION REGULATORY REQUIREMENTS

Not regulated by D.O.T.

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

*This product safety data sheet is offered solely for your information, consideration and investigation. **CRYSTAL MARK, INC.** provides no warranties, either expresses or implies, and assumes no responsibility for the accuracy or completeness of the data contained herein.*

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