

# CRYSTAL MARK, INC.

A SWAN TECHNOLOGIES CORPORATION  
613 Justin Avenue • Glendale, California 91201-2396  
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## MATERIAL SAFETY DATA SHEET

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

### SECTION I - PRODUCT IDENTIFICATION

**Trade Name:** Micrograded Alundum Aluminum Oxide (White)      **Date Prepared:** 03-28-05  
**Manufacturer's Name:** CRYSTAL MARK, INC.      **Phone Number:** (818) 240-7520  
613 Justin Avenue  
Glendale, CA 91201

### SECTION II – INGREDIENTS

**Chemical Names:** Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) @ 99%  
**CAS Numbers:** 1344-28-1  
**ACGIH:** 10 mg/m<sup>3</sup>      **TLV:** 10 mg/m<sup>3</sup>      **OSHA:** 10 mg/m<sup>3</sup>      **PEL:** 10 mg/m<sup>3</sup>

### SECTION III - PHYSICAL DATA

**Boiling Point:** N/A      **Melting Point:** 2072°C      **Specific Gravity:** 3.95  
**Vapor Pressure:** None      **Vapor Density:** N/A      **Evaporation Rate:** None  
**Solubility in Water:** Insoluble      **Solubility in Alcohol:** None  
**Appearance and Odor:** Granular, white, no odor

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** None  
**Flammable Limits:** LEL: N/A      UEL: N/A  
**Extinguishing Media:** None  
**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/m<sup>3</sup> (OSHA) PEL: 15mg/m<sup>3</sup>

*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.

*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. Obtain medical assistance.

*Swallowed* - Obtain first aid if needed.

**Suspected Cancer Agent:** No

## SECTION VI - REACTIVITY DATA

**Stability:** STABLE

**Conditions to avoid:** Inert

**Incompatibility (materials to avoid):** Inert

**Hazardous Polymerization:** Inert

**Hazardous Decomposition Products:** Inert

## 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

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