



**M & M Inter Company limited**

**บริษัท เอ็มแอนด์เอ็ม อินเตอร์ จำกัด**

25/7 หมู่ที่ 1 ตำบลคลองโยง อำเภอพุทธมณฑล จังหวัดนครปฐม 73170

25/7 Moo 1 Khlongyong, Phutthamonthon, Nakornpathom 73170

Tel. 034-246247-50 Fax.034-246251

Email: info@mmintergroup.com Website: www.mmintergroup.com

## **MATERIAL SAFETY DATA SHEET**

### **1. Identification of the manufacturer**

<b>Product</b>	: White Aluminium Oxide
<b>Size</b>	: Mesh 16, 20, 24, 36, 40, 46, 60, 80, 100, 120, 150, 220,320 600
<b>Uses of Goods</b>	: For applying with Suction Blast Machine for Blasting Lapping polishing surface preparation.
<b>Thailand Distributor</b>	: M&M Inter Co.,Ltd.  25/7 Moo 1 Khlongyong, Phutthamonthon, Nakornpathom 73170

### **2. Chemical composition (%)**

AL <sub>2</sub> O <sub>3</sub>	: 95.00 %
SiO <sub>2</sub>	: 0.72 %
Fe <sub>2</sub> O <sub>3</sub>	: 1.00 %
TiO <sub>2</sub>	: 3.00 %
Ca O	: 0.30 %

### **3. Physical and Chemical Properties**

APPEARANCE	: White solid or powder
ODOR	: Odorless
SOLUBILITY IN WATER	: Slight
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	: 3.9
MELTING POINT	: +3600 °F (+ 1980 °C)
pH (10% slurry)	: N/A
VOLATILE	: 0%
TYPES	: Sizes range from 2" to powders
C-E Minerals	: MSDS for White Aluminum Oxide



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### 4. Fuel and Explosion Hazard Data

Non-flammable White solid or powder. May cause minor eye and skin irritation. Inhalation of high concentrations may cause transient upper respiratory irritation. Particulate matter may scratch the eyes.

### 5. Health Hazard Data

Eyes	: Dusts may cause minor irritation. Particulate matter may scratch the cornea or cause other mechanical injury to the eye.
Skin	: May cause minor irritation.
Ingestion	: Relatively non-toxic. Ingestion is not anticipated under normal working

### 6. Safety Measures

Special Production Information	
Fire and Explosion Prevention	: Keep away from heat and flame
Respiratory Protection	: Wear protection mask
Hand Protection Type	: No dangerous
Eye Protection	: Wear goggle

### 7. First Aid

Eyes	: Flush eyes with lukewarm water for 15 minutes opening and closing eyelids to ensure adequate rinsing. If redness, irritation, pain, or tearing occurs, seek medical attention.
Skin	: Exposure not anticipated.
Inhalation	: Not anticipated. If inhalation of high concentrations occurs, remove to fresh air. If breathing problems occur, a certified professional should administer oxygen or artificial respiration as indicated. Seek immediate medical attention.
Ingestion	: None required.

### 8. Accidental Release Measures

Isolate hazard area and deny entry to unauthorized and/or unprotected personnel. Do not walk through spilled material. Vacuum small amounts. Gently shovel or scoop larger amounts into clean dry container for later recycle or disposal. Water mist may be added as necessary to control the level of airborne dusts. Protective equipment for clean-up personnel depends on the level of exposure anticipated (See Section 8). C-E Minerals: MSDS for White Aluminum Oxide.



## **9. Transport information**

No dangerous material according to transport regulations.

## **10. Disposal Considerations**

According to the local guide lines for waste and garbage dump, combustion.

## **11. Handling and Storage**

Store in dry area in closed containers. Storage and work areas should be periodically cleaned to minimize dust accumulation. Avoid dust inhalation and promulgation. DO NOT use compressed air or dry sweeping to remove dust from work area. Dusts should be removed using an appropriately equipped vacuum. If an appropriate vacuum is unavailable, only wet-clean-up methods should be used (i.e. wet sweeping, misting, etc.). Moisture should be added as necessary to reduce exposure to airborne respirable dust. Under dusty conditions, employees should wear coveralls or other suitable work clothing. Vacuum dusty clothing before removal. Practice good housekeeping. Wash thoroughly after handling. Change contaminated clothing. Do not reuse until laundered.

## **12. Personal protection**

**RESPIRATORY** : Under normal working conditions, below acceptable exposure guidelines, none is required. For concentrations above the PEL but less than 10 X the PEL, a NIOSH approved dust mist respirator should be worn. Appropriate respirator selection will be dependent upon the magnitude of exposure and should be selected in accordance

**SKIN** : None required.

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

**ENGINEERING CONTROLS** : General ventilation. Local exhaust and enclosed processes may be necessary for processes which generate large quantities of airborne dust.



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OTHER : None

### 13.Toxicological Information

EYE : Particulate matter may cause physical injury to the eye.

SKIN : May cause minor irritation.

INHALATION : May cause minor transient respiratory irritation.

INGESTION : Ingestion of large quantities may result in gastrointestinal irritation and eventually interference with phosphate absorption which results in rickets.

CHRONIC : Many studies indicate that aluminum oxide dust acts as an “inert” material when inhaled.

SUBCHRONIC : No Data

OTHER : Implantation of aluminum oxide into rats has resulted in tumors at the site of application. Intrapleural administration of 90 mg/kg aluminum oxide has resulted in tumors of the lungs, thorax or respiratory system.

### 14.Ecological Information

White Aluminum Oxide is relatively inert. It does not contain ozone depleting substances and is not expected to exert an ecotoxic effect or bioconcentrate in the food chain.

### 15.Stability and Reactivity

STABILITY : Stable

REACTIVITY/INCOMPATIBILITY : Aluminum oxide reacts violently with chlorine trifluoride producing flames.

Ethylene oxide polymerizes violently when in contact with pure aluminum oxide.

Aluminum oxide is also incompatible with hot chlorinated rubber, acids, and oxidizers.

DECOMPOSITION PRODUCTS : None

HAZARDOUS POLYMERIZATION : Will not occur.

### 16.Other information

Equipment installation : Ventilated area



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