



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

Product : Flint Clay

Size : 22S, 35S, 200M (On request)

Thailand Distributor : M&M Inter Co.,Ltd.

25/7 Moo 1 Khlongyong, Phutthamonthon,

Nakornpathom 73170

2. Chemical composition (%)

AL₂O₃ : 44-46

Fe₂O₃ : 1.2-1.5

SiO₂ : 50-53

TiO₂ : 0.9

3. Physical and Chemical Properties

Physical state : Sharp angular grit

Bulk density g/cm³(min) : 2.53

Refractoriness °C (min) : 1760

4. Fuel and Explosion Hazard Data

Flash Point : No

Auto-Ignition Temperature : Not Fire

Chemical Reactivity : No Chemical Reactivity

5. Health Hazard Data

Ways of Exposure : No

Skin irritation by touching exceed : No

Quantity for short period of time



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

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. Special Instructions

Handling and Storing

: Keep away from flame and moisture

Disposal Methods

: Clean splitting area with water

Extinguishing Media

: Use dry chemical fire extinguisher

10. Transport information

No dangerous material according to transport regulations.

11. Disposal Considerations



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

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

12.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.

13.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.
OTHER	: None

14.Toxicological Information



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

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.

15.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.

16.Other information

Equipment installation : Ventilated area