



M & M Inter Company limited

บริษัท เอ็มแอนด์เอ็ม อินเตอร์ จำกัด

25/7 หมู่ 1 ต.คลองโยง อ.พุทธมณฑล จ.นครปฐม 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. Product And Compan Information

Product : Iron Silicate

Recommended use of chemical and restrictions on use

- Recommended use : N/A
- Restrictions on use : Foodstuffs

Uses of Goods : For Shot Blasting material.

Thailand Distributor : M&M Inter Co.,Ltd.
25/7 Moo 1, Khlongyong, Phutthamonthon,
Nakornpathom 73170
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2. Composition/Information On Ingredients

Chemical Composition (%)

CaO	11
Fe ₂ O ₃	35.7
SiO ₂	20.7
Al ₂ O ₃	6.4
MgO	1.73
Cr ₂ O ₃	0.01
S	0.02
TiO ₂	0.3
Others	24.14

Remark: Analysis by XRF, Others = Loss of Ignition



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3. Physical and Chemical Properties

- A. Physical State : Spherical Particles Solid
- B. Color : Gray/Black color
- C. Odor : free
- D. pH : 10~11
- E. Melting point : > 1000 °C
- F. Boiling Point : No data available
- G. Flash Point : No data available
- H. Autoignition temperature : No spontaneous combustion under 250 °C
- I. Vapour Pressure : 0 mmHg (at 20 °C)
- J. Density : 3.0~4.0 at 20 °C
- K. Partition coefficient (n-octanol/water) : No data available
- L. Viscosity : No data available
- M. Water solubility : Insoluble at 20 °C
- N. Explosive properties : No self-reaction hazard *UN TDG test & Criteria–Test
E3
- O. Decomposition temperature : No data available
- P. Lower explosion limit/Upper explosion limit : No data available

4. Hazards Identification

A. Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

- Health Hazard : Skin/Eye Irritation-Category 2
Specific Target Organ Toxicity (Single Exposure)-Category 3
- Target Organ : Respiratory system
- Environment Hazard : Not applicable
- Physical Hazard : Not applicable

B. Label elements including precautionary statements

- Symbols



- Signal word : Warning
- Hazard Statements

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

- Precautionary statements

Prevention P261 Avoid breathing

dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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Responses	P302+P352 IF ON SKIN : wash with plenty of soap and water. P304+P340 IF INHALED : Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P305+P351+P338 IF in eye : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 IF exposed : call a POISON CENTER or doctor/physician. P332+P313 IF SKIN irritation occurs : Get medical advice/attention. P337+P313 If eye irritation persists : Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
Storage	P402 Store in a dry place. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

C. NFPA Rating

- Health : 1 Flammability : 0 Reactivity : 0 Water reactivity: 0



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5. First Aid Measures

A. In case eye contact

- Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

B. In case of skin contact

- Wash off with soap and plenty of water.

C. If inhaled

- If breathed in, move person into fresh air.
- If not breathing, give artificial respiration.
- Consult a physician.

D. If swallowed

- Rinse mouth with water.
- Never give anything by mouth to an unconscious person.

E. Potential health effect

- May be harmful if swallowed.

F. Other medical attention.

- Medical personnel should be aware of the protective measure of the substance.

6. Fire-Fighting Measures

A. Suitable extinguishing media

- Dry chemical, carbon dioxide

B. Unsuitable extinguishing media

- Water spray

C. Specific hazards arising from chemical

- Nonflammability material. D. Specific

Protective equipment for fire-fighters

- Fire fighters should enter area wearing respiratory protection and protective equipment.



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7. Accidental Release Measures

A. Personal precautions

- Wear protective gloves/protective clothing/eye protection/face protection
- Ensure adequate ventilation
- Protect from moisture.
- Avoid contact with skin and eyes. B.

Environmental precautions

- Don't dispose the product into drainages. C.

Methods and materials for containment and cleaning up

- Keep in suitable, closed containers for disposal.

8. Handling And Storage

A. Precautions safe handling

- Avoid breathing dust.
- Avoid contact with skin and eyes
- Wear protective gloves/protective clothing/eye protection/face protection
- Provide appropriate exhaust ventilation at places where dust is formed.
- Keep in suitable, closed containers for transportation. B.

Conditions for safe storage

- Store in a well-ventilated place. Keep container tightly closed.
- Avoid stack more than 3 stages for long-period.



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9. Exposure Control/Personal Protection

A. Components workplace control parameter

- KOSHA : No data available
- US ACGIH : No data available

B. Appropriate engineering controls : Ventilation

C. Personal protective equipment

- Respiratory : Approved respirator equipped with cartridge for dust
- Eye protection : Protective goggles
- Hand protection : Protective gloves
- Skin and body protection : Working clothes

10. Stability And Reactivity

A. Chemical stability

- Since the material itself is non-flammable, heated at a high temperature heating.

B. Conditions to avoid

- Avoid direct sunlight and moisture.

C. Materials to avoid

- Strong Acids.

D. Hazardous decomposition products

- No data available

11. Toxicological Information

A. Acute toxicity

- Oral rat LD50: No data available *from IUCLID/US NLM
- Skin rabbit LD50: No data available
- Inhalation rat LC50: No data available

B. Skin irritation : No data available *from KOSHA net

C. Eye irritation : No data available

D. Respiratory sensitization : No data available

E. Germ cell mutagenicity : No data available

F. Skin sensitization : No data available

G. Carcinogenicity : Not classifiable *From CCRIS/IARC

H. Reproductive toxicity : No data available

I. Specific target organ toxicity-single exposure (GHS)

: May cause respiratory irritation *From KOSHA net

J. Specific target organ toxicity-repeated exposure (GHS)

: No data available

K. Aspiration hazard : No data available

12. Ecological Information

A. Toxicity

- Fish LC50 : No data available *from IUCLID
- Crustacean EC50 : No data available
- Algae EC50 : No data available

B. Persistence and degradability : No data available

C. Bioaccumulative potential : No data available

D. Mobility in soil : No data available

E. Other adverse effects : No data available



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13. Disposal Considerations

A. Disposal consideration

- Observe all environmental regulations.

B. Disposal precaution

- Avoid disposing to the environment.

14. Transport Information

A. UN TDG : No data available

B. IMDG : No data available

15. Regulatory Information

A. Skin/Eye Irritation-Category 2 Specific Target Organ Toxicity (single Exposure)-
Category 3

- Target Organ : respiratory system

B. Not hazardous material

C. Not toxic chemical

D. Not applicable

E. Skin/Eye Irritation, Specific Target Organ Toxicity

16. Other Information

A. Issued Date : 2014. 11. 25

B. Revision No. : 0

C. Revision Date : -

D. References

- Toxic & ecological information : OECD SIDS, IUCLID, US NLM, IARC, EC ESIS, CCRIS