

Safety Data Sheet

WOLLASTONITE

Revision date :

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NUMBER

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name	Wollastonite (Calcium Metasilicate)
CAS NO.	13983-17-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

1. Wollastonite is used in coatings as an extender pigment, and to provide resistance to flash and early rust
2. Wollastonite provides smooth flow, water resistance, improved wet adhesion, and good gloss in epoxy powder coatings.
3. Wollastonite is used as a reinforcing filler in plastics because of its low oil and moisture absorption.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
 106, Chalaremprakiat, Lor 9, Soi 22, Yak
 5, Nongbon, Prawet, Bangkok
 Bangkok - 10250
 Thailand
 Telephone : 0804531391
 Email - contact@polymeradd.co.th

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical and Chemical Hazards	Not classified
Human Health	Quartz: STOT RE 1 – H372
Environment	Not classified

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Danger

H372

Causes damage to lungs through prolonged or repeated exposure via inhalation

P260

Do not breathe dust

P285

In case of inadequate ventilation wear respiratory protection

P501

Dispose of contents / containers in accordance with local regulations

2.3 Other hazards

None

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3 COMPOSITION/INFORMATION ON INGREDIENTS

Composition Comments	Calcium Metasilicate : >70 Calcium carbonate : <20 Magnesium Calcium silicate : <3 Silicon dioxide : <4
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3.1 Substances

Component

Chemical Name	Wollastonite
CAS NO	13983-17-0
EC Number	237-772-5
Molecular Formula	CaSiO ₃
Molecular Weight	116.159 g/mol

Concentration

4 FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled	Remove to fresh air
In case of skin contact	Wash skin thoroughly with soap and water.
In case of eye contact	Immediately rinse with water for several minutes.
If swallowed	Drink plenty of water. Never give liquid to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

5.2 Special hazards arising from the substance or mixture	The product is not flammable, combustible or explosive. No hazardous thermal decomposition
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5.3 Advice for firefighters	No specific special firefighting protection is required.
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5.4 Further information

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

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Use proper respiratory and personal protective equipment. MSHA/NIOSH or OSHA/NIOSH approved respirator recommended. Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floor or concrete pads

6.2 Environmental precautions

No data available

6.3 Methods and materials for containment and cleaning up

Vacuum, pump or scoop spilled material into containers for reclaiming or disposal. Do not discharge into drains, watercourses or onto the ground.

6.4 Reference to other sections

No data available

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Minimize dust generation and accumulation. If excessive dust is generated, provide adequate ventilation and use proper respiratory and personal pro

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.4 Specific end use(s)

Store away from direct sunlight in dry conditions. Close container after use

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree

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of protection: safety glasses with sideshields. Recommended: splash goggles

Hands protection

Protective gloves should be worn under normal conditions of use

Body Protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: disposable particulate mask

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	White powder
b) Odour	Odorless
c) Odour Threshold	Not applicable
d) pH (% solution in water)	10 [Conc. (% w/w): 10%]
e) Melting point/freezing point	Not applicable
f) Initial boiling point and boiling range	Not applicable
g) Flash point	Not applicable
h) Evaporation rate	Not applicable
i) Flammability (solid or gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapour pressure	Not applicable
l) Vapour density	Not applicable
m) Relative density	Not available.
n) Water solubility	Insoluble
o) Partition coefficient: n-octanol/water	Not applicable
p) Autoignition temperature	Not applicable
q) Decomposition temperature	Not applicable
r) Viscosity	Not applicable
s) Explosive properties	Not applicable
t) Oxidizing properties	Not applicable ⁹⁶

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9.2 **Other safety information**

10 **STABILITY AND REACTIVITY**

10.1	Reactivity	Not reactive
10.2	Chemical stability	The product is stable.
10.3	Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur
10.4	Conditions to avoid	No specific data
10.5	Incompatible materials	No specific data
10.6	Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 **TOXICOLOGICAL INFORMATION**

11.1 **Information on toxicological effects**

Acute toxicity	Not available.
Respiratory or skin sensitization	Not available.
Germ cell mutagenicity	Mixed findings in several in vitro studies (Aslam et al, 1993; Liu et al, 1993; Koshi et al, 1991; NTP / Zeiger et al, 1987), and no known structure activity relationship to a proven germ cell mutagen; not sufficient for classification.
Carcinogenicity	IARC (1997) classifies wollastonite as Group 3 (not classifiable as to its carcinogenicity to humans), based on inadequate evidence in both humans and animals. Since animal studies have shown no convincing evidence of a carcinogenic potential for wollastonite, and one mortality study of a small cohort of wollastonite workers showed no excess of lung or pleural malignancies (Huuskonen et al., 1982b), an ACGIH A4, Not Classifiable as a Human Carcinogen, cancer designation is recommended.
Reproductive toxicity	Not available
Specific target organ toxicity - single exposure	Single exposure data not available. After short-term (3 to 5 day) exposure in rats, pulmonary inflammatory responses have been observed (Warheit et al, 1991), indicating a potential for acute respiratory irritation; not sufficient for classification
Specific target organ toxicity - repeated exposure	Studies of mine and mill workers suggest wollastonite may have the potential to adversely

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affect the lung (pneumoconiosis) and/or lung function (Finnish cohort: Huuskonen et al, 1983. US cohort: Shasby et al, 1979; Hanke et al, 1984; including the subsequent studies on these cohorts.). However, a re

Aspiration hazard

Not available.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Not available

12.2 Persistence and degradability

Biodegradation

Not available

12.3 Bio accumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

14.2 UN proper shipping name

ADR/RID

IMDG

IATA

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Not regulated. Not regulated. Not regulated.

14.3 **Transport hazard class(es)**

ADR/RID

IMDG

IATA

Not regulated.

Not regulated.

Not regulated.

14.4 **Packaging group**

ADR/RID

IMDG

IATA

Not regulated.

Not regulated.

Not regulated.

14.5 **Environmental hazards**

ADR/RID

IMDG Marine pollutant

IATA

Not regulated.

Not regulated.

Not regulated.

14.6 Special precautions for user

15 **REGULATORY INFORMATION**

15.1 **Safety health and environmental regulations/legislation specific for the substance or mixture**

No data available

15.2 **Chemical Safety Assessment**

No data available

16 **OTHER INFORMATION**

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