

Polymer Add (Thailand) Co; Ltd.

Safety Data Sheet

MICA

Revision date :

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NUMBER

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

1.1 Product identifiers

Chemical Name Mica
CAS NO. 12001-26-2

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

1. It is used as filler in thermal insulating boards, brake linings and molded rubber goods.
2. It is used in making roofing shingles, wallpaper, paint and plastics.
3. It is used in plastics as a reinforcing material.

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 This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR1910.1200)

Human Health Skin Irritation (Category 2)
Eye Irritation (Category 2B)
Carcinogenicity (inhalation) Category 1A
SPECIFIC Target Organ Toxicity " (Repeated Exposure) (respiratory tract) (inhalation) (Category 1)

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

Pictogram



Signal word

Danger

H350i
H350

May cause cancer by inhalation
Causes damaged to organs through prolonged or repeated exposure if inhaled (respiratory tract)

H315
H335

Causes skin irritation. Causes eye irritation.
May cause respiratory irritation

P101+102+103

Read label before use. Keep out of reach of

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P260	children.
P264	Do not breathe dust
P271	Wash hands thoroughly after handling
P281	Use only outdoors or in a well ventilated area.
P304+P340+P312	Use personal protective equipment as required. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses.
P332+P337+P313	If skin or eye irritation occurs get medical attention.
P362	Take off contaminated clothing and wash before reuse.
P403+P233	Store in well-ventilated place. Keep container tightly closed.
P501	Dispose of contents in accordance with applicable regulations.

2.3 Other hazards

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name	Mica
CAS NO	12001-26-2
EC Number	215-479-3
Molecular Formula	$K_2O \cdot 3(Al_2O_3) \cdot 6(SiO_2) \cdot 2(H_2O)$
Molecular Weight	797 g/mol.
Concentration	99.7%

4 FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled	If inhaled, move the affected person to fresh air. Get medical attention.
In case of skin contact	Cleanse with soap and warm water. Get medical attention if irritation persists.
In case of eye contact	Flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
If swallowed	Wash out mouth with water. Remove to fresh air. If material is swallowed and the victim is conscious, give small amounts of water. Do not induce vomiting unless directed to by

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medical personnel.
Get medical attention.

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

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Combustion products may include metal oxide(s).

5.3 Advice for firefighters

Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire.

5.4 Further information

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Wear protective equipment.
Keep unprotected persons away.
Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow material to be released to the environment without proper governmental permits

6.3 Methods and materials for containment and cleaning up

Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.

7.2 Information about protection against explosions and fires

The product is not flammable

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7.3 Conditions for safe storage including any incompatibilities

No special requirements

7.4 Specific end use(s)

No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Appropriate engineering controls

Ventilation: There is a possibility of high particulate exposure levels when working with this product. At a minimum, local exhaust and/or general dilution ventilation should be provided as necessary to maintain exposures below regulatory and recommended limits.

Dust Collection: Dust collection systems must be used in transferring operations, cutting or machining or other dust generating processes because of anticipated dust levels.

Vacuum or wet-cleanup methods should be used.

Eye/face protection

Safety glasses

Hands protection

Impervious gloves Check protective gloves prior to each use for their proper condition.

The selection of suitable gloves not only depends on the material, but also on quality.

Quality will vary from manufacturer to manufacturer.

Skin protection

Normal work clothing (long sleeved shirts and long pants) is recommended.

Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist and between the fingers.

Where direct contact or handling causes airborne product, the use of gloves and coveralls is recommended.

Body Protection

Protective work clothing.

Respiratory protection

Handling of dust creates respiratory problems on long term exposure.

In addition this product contains a small quantity of quartz, crystalline silica.

IARC Monographs, Vol 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica in the form of quartz or cristobalite from occupational sources causes cancer in humans.

A properly fitted NIOSH approved N 95 series disposable dust respirator such as the 3M model 8210 (model 8271 in high humidity environments) or equivalent must be worn when using this material.

Because of the possibility of high particulate levels occurring with this product, it may be necessary to use a half face respirator with P100 or HEPA filters during operations such as maintenance, clean up, or transferring.

This decision should be made on a case-by-case basis depending on total exposures.

Use respiratory protection in accordance with your company's respiratory protection program,

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local regulations and OSHA regulations under 29 CFR 1910.134.

Control of environmental exposure

Do not allow to enter drains, sewers or watercourses.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Grey to Silver powder
b) Odour	No characteristic odour.
c) Odour Threshold	NA (Not applicable)
d) pH (% solution in water)	9.0 @10% concentration.
e) Melting point/freezing point	1300Å°C
f) Initial boiling point and boiling range	Not available
g) Flash point	Not available
h) Evaporation rate	Not available
i) Flammability (solid or gas)	Not available
j) Upper/lower flammability or explosive limits	Not available
k) Vapour pressure	Not available
l) Vapour density	Not available
m) Relative density	2.7-2.8@20Å°C
n) Water solubility	Insoluble.
o) Partition coefficient: n-octanol/water	Not available
p) Autoignition temperature	Not available
q) Decomposition temperature	Decomposition > 1300 C
r) Viscosity	Not available
s) Explosive properties	Not available
t) Oxidizing properties	Not available

9.2 Other safety information

Bulk Density	Not available
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10 STABILITY AND REACTIVITY

10.1 Reactivity	This is a stable material.
10.2 Chemical stability	Stable under normal storage and handling conditions.
10.3 Possibility of hazardous reactions	Not known.

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10.4	Conditions to avoid	Not known.
10.5	Incompatible materials	Not known.
10.6	Hazardous decomposition products	When heated, vapors/gases hazardous to health may be formed.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	LD50: Not available. LC50: Not available
Acute oral toxicity	No data recorded. May cause discomfort if swallowed.
Acute Inhalation toxicity	No data recorded. Dust may irritate respiratory system or lungs.
Acute dermal toxicity	No data recorded.
Acute Irritation / corrosion toxicity	No data recorded.
Skin corrosion/irritation	No data recorded. Prolonged and frequent contact may cause redness and irritation.
Serious eye damage/eye irritation	No data recorded. Particles in the eyes may cause irritation and smarting.
Respiratory or skin sensitization	No data recorded.
Germ cell mutagenicity	No data recorded.
Carcinogenicity	No data available.
IARC	This product contains a small quantity of quartz, crystalline silica. IARC Monographs, Vol 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica in the form of quartz or crystobalite from occupational sources causes cancer in humans.
Specific target organ toxicity - single exposure	No specific target organs noted.
Specific target organ toxicity - repeated exposure	No specific target organs noted.
Route of exposure	No route of entry noted.
Aspiration hazard	Not anticipated to present an aspiration hazard based on chemical structure.
Inhalation	Dust may irritate respiratory system or lungs.
Ingestion	May cause discomfort if swallowed

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Skin	Prolonged and frequent contact may cause redness and irritation.
Eyes	Particles in the eyes may cause irritation and smarting.

12 ECOLOGICAL INFORMATION

12.1 Toxicity	In General this product is considered NON-TOXIC to environment.
Toxicity to fish	Not considered toxic to fish.
Toxicity to daphnia and other aquatic invertebrates	No data collected.
Toxicity to Algae/Aquatic plants	No data collected.
Toxicity to microorganisms	No data collected.

12.2 Persistence and degradability

Biodegradation

The product is derived from natural inorganic mineral and is not biodegradable.

12.3 Bio accumulative potential	No data available on bioaccumulation
12.4 Mobility in soil	The product is insoluble in water.
12.5 Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
12.6 Other adverse effects	None known

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Recover and reclaim or recycle, if practical.
Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA
-	-	-

14.2 UN proper shipping name

ADR/RID	IMDG	IATA
Not dangerous goods	Not dangerous goods	Not dangerous goods

14.3 Transport hazard class(es)

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	ADR/RID	IMDG	IATA
	-	-	-
14.4 Packaging group			
	ADR/RID	IMDG	IATA
	-	-	-
14.5 Environmental hazards			
	ADR/RID	IMDG Marine pollutant	IATA
	no	no	no
14.6 Special precautions for user	No data available		

15 REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Month of Creation	March 2020
Month of Revision	March 2023