

Polymer Add (Thailand) Co; Ltd.



Safety Data Sheet

CLAY BENTONITE

Revision date :

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Version : 3.0

NUMBER

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

1.1 Product identifiers

Chemical Name BENTONITE CLAY
CAS NO. 1302-78-9

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

1. BP-500A-FG is mainly used as modifier in polyolefin and twin screw melt extrusion of thermoplastic polymers such as EVA, TPO.
2. It improves the tensile strength, flexural strength, modulus and other mechanical properties
3. Improve the heat distortion temperature (HDT), dimensional stability, gas barrier properties, flame retardant properties of the polymer

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
106, Chalarempriak, 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

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Precautionary statement(s) None identified

2.3 Other hazards

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name BENTONITE CLAY
CAS NO 1302-78-9
EC Number 215-108-5
Molecular Formula $Al_2O_3 \cdot 4(SiO_2) \cdot H_2O$
Molecular Weight 360.31
Concentration

4 FIRST AID MEASURES

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4.1 Description of first aid measures

If inhaled	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
If swallowed	Do NOT induce vomiting. Get medical attention

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
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5.2 Special hazards arising from the substance or mixture	Keep product and empty container away from heat and sources of ignition
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5.3 Advice for firefighters	None known.
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5.4 Further information

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Avoid contact with skin, eyes or clothing

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Provide adequate ventilation.

6.4 Reference to other sections

No data available

7 HANDLING AND STORAGE

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7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation.
Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Handle under inert gas, protect from moisture.

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store under an inert atmosphere.
Incompatible Materials. Strong oxidizing agents. Strong acids.

7.4 Specific end use(s)

No data available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Appropriate engineering controls

None under normal use conditions.

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory protection

No protective equipment is needed under normal use conditions.

9 PHYSICAL AND CHEMICAL PROPERTIES

a)Appearance	Beige
b)Odour	Odorless
c)Odour Threshold	No information available
d)pH (% solution in water)	No information available
e)Melting point/freezing point	No data available
f)Initial boiling point and boiling range	No information available
g)Flash point	Not applicable

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h)Evaporation rate	Not applicable
i)Flammability (solid or gas)	No data available
j)Upper/lower flammability or explosive limits	No data available
k)Vapour pressure	No information available
l)Vapour density	Not applicable
n)Water solubility	Insoluble in wate
o)Partition coefficient: n-octanol/water	No data available
p)Autoignition temperature	No information available
q)Decomposition temperature	No information available
r)Viscosity	Not applicable

9.2 Other safety information

10 STABILITY AND REACTIVITY

10.1 Reactivity	None known, based on information available
10.2 Chemical stability	Hygroscopic. Moisture sensitive
10.3 Possibility of hazardous reactions	
10.4 Conditions to avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
10.5 Incompatible materials	Strong oxidizing agents, Strong acids
10.6 Hazardous decomposition products	None under normal use conditions

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 > 5000 mg/kg (Rat)
Acute Inhalation toxicity	Not listed
Acute dermal toxicity	Not listed
Acute Irritation / corrosion toxicity	Irritating to eyes, respiratory system and ski
Respiratory or skin sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	Possible cancer hazard. May cause cancer based on animal data. The table below indicates whether each agency has listed any ingredient as a carcinogen
Reproductive toxicity	No information available

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Specific target organ toxicity - single exposure No information available

Specific target organ toxicity - repeated exposure No information available

Aspiration hazard No information available

RTECS No information available

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50: = 19000 mg/L, 96h static (Oncorhynchus mykiss)

Toxicity to daphnia and other aquatic invertebrates Not listed

Toxicity to Algae/Aquatic plants Not listed

12.2 Persistence and degradability

Biodegradation

Insoluble in water

12.3 Bio accumulative potential No information available.

12.4 Mobility in soil Is not likely mobile in the environment due its low water solubility

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA
-	-	-

14.2 UN proper shipping name

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ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID

-

IMDG

-

IATA

-

14.4 Packaging group

ADR/RID

-

IMDG

-

IATA

-

14.5 Environmental hazards

ADR/RID

no

IMDG Marine pollutant

no

IATA

no

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

Month of Creation

April 2023

Month of Revision

April 2027

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

1.1 Product identifiers

Chemical Name

BENTONITE CLAY

CAS NO.

1302-78-9

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

1. BP-500A-FG is mainly used as modifier in polyolefin and twin screw melt extrusion of thermoplastic polymers such as EVA, TPO.
2. It improves the tensile strength, flexural strength, modulus and other mechanical properties
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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

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Precautionary statement(s) None identified

2.3 Other hazards

3 COMPOSITION/INFORMATION ON INGREDIENTS

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4.1 Description of first aid measures

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In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

If swallowed Do NOT induce vomiting. Get medical attention

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

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Treat symptomatically

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

5.2 Special hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition

5.3 Advice for firefighters

None known.

5.4 Further information

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Avoid contact with skin, eyes or clothing

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Provide adequate ventilation.

6.4 Reference to other sections

No data available

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Handle under inert gas, protect from moisture.

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong acids.

7.4 Specific end use(s)

No data available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 Control parameters

Appropriate engineering controls

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d) pH (% solution in water)	No information available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No information available
g) Flash point	Not applicable
h) Evaporation rate	Not applicable
i) Flammability (solid or gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No information available
l) Vapour density	Not applicable
n) Water solubility	Insoluble in water
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No information available
q) Decomposition temperature	No information available
r) Viscosity	Not applicable

9.2 Other safety information

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10 STABILITY AND REACTIVITY

10.1	Reactivity	None known, based on information available
10.2	Chemical stability	Hygroscopic. Moisture sensitive
10.3	Possibility of hazardous reactions	
10.4	Conditions to avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
10.5	Incompatible materials	Strong oxidizing agents, Strong acids
10.6	Hazardous decomposition products	None under normal use conditions

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Aspiration hazard	No information available
RTECS	No information available

12 ECOLOGICAL INFORMATION

12.1	Toxicity	
	Toxicity to fish	LC50: = 19000 mg/L, 96h static (Oncorhynchus mykiss)
	Toxicity to daphnia and other aquatic invertebrates	Not listed

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Toxicity to Algae/Aquatic plants Not listed

12.2 Persistence and degradability

Biodegradation

Insoluble in water

12.3 Bio accumulative potential No information available.

12.4 Mobility in soil Is not likely mobile in the environment due its low water solubility

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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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)

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



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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

Month of Creation

March 2023

Month of Revision

March 2027