

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

1.1 GHS product identifier RHEOLOGICAL ADDITIVE ,ORGANIC BENTONITE

1.2 Other means of identification

SDS number C555-TCO-010-121272

1.3 Recommendations and restrictions on the use of substances or mixtures

Recommended use As thickening, anti-settling and anti-sagging rheological additives,Organic bentonite is widely used in blending paint, floor paint, putty gray, primer, anticorrosive paint, sealant and grease, etc.

Recommended restrictions Not available.

1.4 Supplier's details

Company Name Zhejiang Hongyu New Materials Co.,Ltd.
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2. Hazards identification

2.1 GHS classification of substance or mixture, and national or regional information

Physical hazards Not classified. Acute
Health hazards toxicity, oral Acute Category 4
toxicity, dermal Not Category 4
Environmental hazards classified.

2.2 GHS label elements

Hazard symbol(s)



Signal word Warning
Hazard statement(s) Harmful if swallowed. Harmful in contact with skin.
Precautionary statement(s)

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing.
Response IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.
Storage Store away from incompatible materials.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards which do not result in GHS classification

Supplemental information None known.

3. Composition/information on ingredients

3.2 Mixture

Chemical identity	Common name and synonym	CAS number and other unique identifiers	Concentration or concentration range
Montmorillonite		1318-93-0	60 - 76
Quaternary ammonium compounds, (hydrogenated tallow alkyl)trimethyl, chlorides		61788-78-1/68002-62-0	20 - 33

Chemical identity	Common name and synonym	CAS number and other unique identifiers	Concentration or concentration range
Water		7732-18-5	0.8 - 5
Other components below reportable levels			1 - < 3

4. First-aid measures

4.1 Description of first-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

4.3 Indication of immediate medical considerations and important specific treatment that should be performed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

5.1 Prohibited extinguishing media and suitable extinguishing media

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Not available.

5.2 Specific hazards arising from chemicals

During fire, gases hazardous to health may be formed.

5.3 Special protective equipment and precautions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use water spray to cool unopened containers.

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

7.1 Precautions for safe handling, use and storage

Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

8.2 Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 Personal protective measures

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Appearance

Physical state Solid.

Form Powder.

Color Light yellow, gray.

9.2 Odor Odorless.

9.3 Odor threshold limit Not available.

9.4 pH Not available.

9.5 Melting point/freezing point 143.6 °F (62 °C) (CAS#61788-78-1)

9.6 Initial boiling point and boiling range 260.6 °F (127 °C) (CAS#61788-78-1)

9.7 Flash point Not available.

9.8 Evaporation rate Not available.

9.9 Flammability (solid, gas) Not available.

9.10 Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

9.11 Vapor pressure < 0 hPa (20°C)(CAS#61788-78-1)

9.12 Vapor density Not available.

9.13 Relative density Not available.

9.14 Solubility

Solubility (water) Not available.

9.15 Partition coefficient: n-octanol/water 3.71 (25°C)(CAS#61788-78-1)

9.16 Auto-ignition temperature Not available.

9.17 Decomposition temperature Not available.

9.18 Viscosity Not available.

Other information

Density 0.90 g/cm³ (CAS#61788-78-1)

Explosive properties Not available.

Oxidizing properties Not available.

Surface tension 33 mN/m (25°C)(CAS#61788-78-1)

10. Stability and reactivity

10.1 Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	Contact with incompatible materials.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Carbon oxides.

11. Toxicological information

11.1 Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Harmful in contact with skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Harmful if swallowed.

11.2 Symptoms related to physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

11.3 Delayed and immediate effects, including chronic effects from short- and long-term exposure Not available.

11.4 Numerical values of toxicity

Acute toxicity Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results
Quaternary ammonium compounds, (hydrogenated tallow alkyl)trimethyl, chlorides (CAS 61788-78-1)		
Acute		
Dermal		
LD50	Rabbit	1600 mg/kg
Oral		
LD50	Rat	1260 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not available.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

12.1 Ecological toxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2 Persistence and degradability No data is available on the degradability of this product.

12.3 Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ORGANOCLAY

3.71, (25°C)(CAS#61788-78-1)

12.4 Mobility in soil No data available.

12.5 Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADR
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Federal regulations

Thailand. Explosive Substances & Precursors (Ministry of Defense Notification Re: Arms Subject to Imports License)

Not regulated.

Thailand. Notification of the Ministry of Interior, Re: Work Safety Relating to Dangerous Chemicals

Not regulated.

Thailand. Notification of the Ministry of Interior, Re: Work Safety Relating to More Dangerous Chemicals

Not regulated.

Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)

Not regulated.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 08-10-2016.

Revision date 08-10-2016.

Version # 01

Disclaimer

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