

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: ORGANOCLAY RHEOLOGICAL ADDITIVE

Trade Name: ICLAY 21 ® ORGANOCLAY RHEOLOGICAL ADDITIVE

Section 2 – Composition/Information on Ingredient

Chemical Name	CAS No.	In % by Weight
Organoclay	68911-87-5	95~97
Silica	14808-60-7	0~1
Surface Moisture	7732-18-5	2~3.5

Section 3 - Hazards Identification

At industrial condition, reference as follows:

Eyes May cause irritation to eyes.

Skin May cause skin irritation individual.

Inhalation May cause respiratory tract irritation.

Ingestion

May cause harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Section 4 - First Aid Measures

Eye Immediately flush with plenty of water for at least 15 minutes. Get medical aid.

Skin Remove contaminated clothing/shoes. Flush skin with plenty of water. Get medical attention. Do not reuse clothing until cleaned.

Inhalation Remove victim to fresh air. Give artificial respiration if not breathing. Provide oxygen if breathing is difficult. Get medical attention immediately.

Ingestion Do not induce vomiting. Get medical attention.

Section 5 - Fire Fighting Measures

Flammability: Non-flammable.

Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Such as CO₂, dry chemical, water spray, foam.

Firefighting

Wear self contained breathing apparatus and protective clothing.

Decomposition Products

Carbon oxides, nitrogen oxides (NO_x), Hydrogen chloride gas.

Section 6 - Accidental Release Measures

At long industrial condition, reference as follow:

Steps to be taken in case material is spilled or released

Ventilate and evacuate area. Wear appropriate personal protective equipment as specified in Section

8. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Waste Disposal Method

Use Waste Disposal Methods in accordance with all Federal, State and Local rules and regulations.

Section 7 - Handling and Storage

Handling

Keep away from heat, sparks and open flame. Avoid eye contact. Avoid prolonged or repeated contact with skin.

Wash skin with soap and water after contact. Do not cut, welding, heating, air drilling or pressurized containers.

Storage

Store in a cool, dry and well-ventilated place. Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Keep away from incompatible substances, such as strong oxidizing agents.

Section 8 - Exposure Controls, Personal Protection

No need under normal use. At long industrial condition, reference as follow:

Engineering Controls

Keep workroom concentration below current applicable OSHA safety and health requirements. If necessary, configure the explosion-proof, anti-static devices.

Respiratory Protection

Appropriate vapor canister, self-contained breathing apparatus or supplied-air hose mask below current applicable OSHA safety and health requirements.

Personal Protection

Safety glasses, protective gloves, and lab coat, eye washer and safety shower if needed.

Exposure limit Bentonite

PC-TWA 6mg/m³.

Section 9 - Physical and Chemical Properties

Flammability: Non-flammable.

Solubility in water: Hardly soluble in water.

Appearance Character: Gray powder.

Section 10 - Stability and Reactivity

Stability

Stable under normal condition.

Incompatibilities

Strong oxidizing agents.

Hazardous Combustible Products

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

Section 11 - Toxicological Information

Bentonite

Intravenous LD50 for Rat: 35mg/kg.

Aliquat 7

Oral LD50 for mouse: 536mg/kg.

Dermal LD50 for mouse: 1600mg/kg.

Section 12 - Ecological Information

Ecotoxicity Bentonite

Toxicity to fish Oncorhynchus mykiss (rainbow trout) LC50: 19000mg/l/ 96h.

Environmental Effect

Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks.

Section 13 - Disposal Considerations

Disposal Treatment

All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated.

Section 14 - Transport Information

The Organoclay is exempt from dangerous goods. It is considered non-dangerous goods by the international Civil Aviation Organization (ICAO), the International Air Transport Association (IATA), the International Maritime Dangerous Goods regulations

(IMDG), or « Recommendations on the Transport of Dangerous Goods Model Regulations» .

Transport Fashion: By air, by sea, by railway, by road.

Section 15 - Regulatory Information

Law Information

- «Dangerous Goods Regulation»
- «Recommendations on the Transport of Dangerous Goods Model Regulations»
- «International Maritime Dangerous Goods»
- «Technical Instructions for the Safe Transport of Dangerous Goods»
- «Classification and code of dangerous goods»
- «Occupational Safety and Health Act» (OSHA)
- «Toxic Substances Control Act» (TSCA)
- «Consumer Product Safety Act» (CPSA)
- «Federal Environmental Pollution Control Act» (FEPCA)
- «The Oil Pollution Act» (OPA)
- «Superfund Amendments and Reauthorization Act Title III (302/311/312/313)» (SARA)
- «Resource Conservation and Recovery Act» (RCRA)
- «Safety Drinking Water Act» (CWA)
- «California Proposition 65»
- «Code of Federal Regulations» (CFR)

Section 16 - Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information maybe applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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