



1. DESCRIPTION

Trade Name: OBM-VISCOSIFIER

Chemical Name: OBM-VISCOSIFIER, Organophilic Clay

Application: Viscosifier in Oil-based drilling fluid

Supplier: TEAM Chemicals

Telephone: +44 (0)207 408 7700 - +98 912 371 7539

Address: No. 43, Souri St., 43 Ashrafi Esfahani Expressway

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

organophilic clay (%= Not Spec)

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Vapors may be irritating to eyes, nose, throat, and lungs. Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.

SWALLOWED

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

EYE

The dust may produce eye discomfort and abrasive eye inflammation.

SKIN

The material may be abrasive to the skin.

Potential Chronic Health Effects:

Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts.

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Chronic symptoms produced by crystalline silicas included decreased vital lung capacity and chest infections.

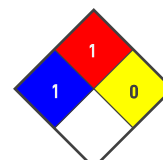
Irritant Yes **Flammable** No

Carcinogenic No **Oxidant** No

Explosive No **Environmental Hazard** No

Corrosive No

(Risk-Phrases) - **(Safety-Phrases)** -





4. FIRST AID MEASURES

Eye Contact:

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Skin Contact:

Brush off dust.

- Seek medical attention in event of irritation.

Inhalation:

If dust is inhaled, remove from contaminated area.

- Encourage patient to blow nose to ensure clear breathing passages.
- Ask patient to rinse mouth with water but to not drink water.
- Seek immediate medical attention.

Ingestion:

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

There is no restriction on the type of extinguisher which may be used.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.

FIRE/EXPLOSION HAZARD · Non combustible.

FIRE INCOMPATIBILITY FIRE INCOMPATIBILITY

Avoid reaction with strong oxidizers, fluorine, chlorates, manganese trioxide, hydrofluoric acid, metal oxides, oxygen difluoride, chlorine trifluoride, manganese trifluoride, and fluorine-containing compounds.

PERSONAL PROTECTION Breathing Equipment



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6. ACCIDENTAL RELEASE MEASURES

Small Spill:

- Clean up all spills immediately.
- Avoid contact with skin and eyes.

Large Spill:

Shovel into dry containers. Cover and move the containers. Flush the area with water. Be aware of the potential for surfaces to become slippery when wet.

7. HANDLING AND STORAGE

Handling Precautions:

Avoid contact with eyes and skin. Provide good ventilation. Mechanical ventilation or local exhaust ventilation may be required. Do not use contact lenses.

Storage Precautions:

Store in tightly closed original container in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS Not Determined.

PERSONAL PROTECTION

RESPIRATOR Respiratory protection must be used if air contamination exceeds acceptable level.

EYE Wear dust resistant safety goggles where there is danger of eye contact.

HAND/FEET PVC gloves.

OTHER No special equipment needed when handling small quantities. Otherwise:: Overalls. Eyewash unit

ENGINEERING CONTROLS

Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.

- Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.
- If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks
- Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding.
- Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.



9. PHYSICAL & CHEMICAL PROPERTIES

Physical State and Appearance: Powder

Color: Black

Odor: Characteristic

pH: NA

Boiling Point: NA

Melting/Freezing Point: 275 – 400 °F (135 - 205°C)

Specific Gravity: 1-1.1

Solubility (Water): Insoluble in water

10. STABILITY & REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Avoid wet and humid conditions - Avoid presence of incompatible materials.

Materials to Avoid: Not determined

Special Remarks on Reactivity: · Hazardous polymerization will not occur.

Special Remarks on Corrosivity: Not determined

11. TOXICOLOGICAL INFORMATION

LD50 product:=5000 mg/kg oral rat

Irritation:=Not considered damaging

Sensitization:=May sometimes form allergic reactions

12. ECOLOGICAL INFORMATION

UK OCNS Category: Not classified

Aquatic LC50: Not toxic

Marine Pollutant: None

Environmental Dangerous Ingredient: None



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13. DISPOSAL CONSIDERATION

WASTE MANAGEMENT: Not Determined

DISPOSAL METHODS: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORT INFORMATION

U.S. DOT Not restricted for transport.

HAZCHEM: None - NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA, IMDG

U.S. DOT CLASS: Not determined

Shipping Description: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION

Classification:

Poisons Schedule (SUSMP): None

REGULATIONS

Disclaimer of liability: the information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use of disposal of the product.



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16. ADDITIONAL INFORMATION

Yearly Revised Primary MSDS

Update in Toxicological Information

Update in Ecological Information

This MSDS summaries to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. TEAM cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.



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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TEAM Chemicals and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.