

OCS100 or Organophilic Clay or Alkyl Quaternary Ammonium Bentonite SDS, Safety Data Sheet
MSDS Sheet, Material Safety Data Sheet

1. Product Identification

Product Name/Synonyms: OCS100 or Organophilic Clay or Alkyl Quaternary Ammonium Bentonite.

CAS No.: Mixture

EINECS EC Number: Mixture

Molecular Formula: Mixture

Molecular Weight: Mixture

Recommended uses and uses advised against (if any): Oil & Gas Wells fracturing and Industrial Manufacturing.

SUPPLIER

Company: Finoric LLC

Address: 8115 Loop 540, Beasley, Texas, 77417 USA

In case of emergency contact:

InfoTrac

US: 1-800-535-5053

International: 352-323-3500

2. Hazards Identification

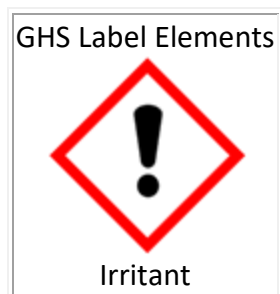
**GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910
Classification according to Regulation (EC) No 1272/2008**

Skin irritation Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity - single exposure, Target Organs - Respiratory system. Category 3

Labeling according GHS USA & Regulation (EC) No 1272/2008



Signal Words: Warning

Hazard statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary statements:

P264: Wash ... thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

Hazard Symbols:

Xi = Irritant

Risk Phrases:

R36/37/38 = Irritating to eyes, respiratory system and skin.

3. Composition/Information on Ingredients

Ingredient: Alkyl Quaternary Ammonium Bentonite CAS no. 68953-58-2 or Quaternary Ammonium Bentonite CAS no. 68153-34-4.

Contains Quartz (SiO₂) CAS 14808-60-7 < 1.0% as a naturally occurring component in clay.

4. First Aid Measures

Always seek medical attention after first aid measures are provided.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical attention immediately.

Ingestion: Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing and shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures



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Fire: Not considered as fire hazard.

Explosion: Not considered as explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. If excessive dust levels are generated (dust clouds obscuring vision), use water mist / fog. Large spills should be contained with water mist and cleaned up using methods that do not generate excessive dust. The material is also slippery when wetted with water, oils or solvents. Appropriate precautions should be taken to avoid slips and falls.

6. Accidental Release Measures

Personal precautions, protective equipment, environmental precautions and emergency procedures: Avoid breathing dust/fumes/gas/mist/vapors/spray. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc). Restrict unprotected personnel from the area. Prevent any contact with hot surfaces. Do not approach facing the wind. Do not touch the spilled material. Keep away from drains, surface and groundwater and soil.

Methods and materials used for containment Cleanup procedures and Storage:

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill: Wet down large spills with water mist to avoid generating excessive dust levels. Avoid water jets. Remove ignition and static electricity sources if large amounts of airborne dust are present. This material is very slippery when wet. Appropriate precautions should be taken to avoid slips and falls. Minimize dusting. Use a dustless vacuum system or shoveling. Avoid dry sweeping or other methods that may generate high dust levels. Wear approved air-purifying particulate filter respirators for use against respirable dust. Wear cotton or canvas gloves. Wear eye protection to prevent dust from entering the eyes.

7. Handling and Storage

Precautions for safe handling: Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Wash thoroughly after handling. Do not drink, eat or smoke while handling. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust/fumes/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc). Prevent any contact with hot surfaces. Containers of this material may be hazardous when empty since they retain product residues.

Conditions for safe storage, including any incompatibilities: Store in cool, dry and ventilated area away from heat sources and protected from sunlight in tightly closed original container. Keep air contact to a minimum. Store protected from heat, sparks and ignition sources and incompatible materials. Avoid contact with skin and eyes. Avoid inhalation of dust/mist/vapor. Do not store with incompatible materials like strong oxidizers and acids. Containers may be hazardous when empty since they retain product residues (dust, solids). Avoid dust formation. Adequate ventilation is necessary in handling areas to prevent excessive airborne dust.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established for this formulation. However in view of Silica, in the product, please maintain as under:

0.1 mg/m³ (as quartz) as per ACGIH TLV and 5 mg/m³ (Respirable); 10 mg/m³ (Total) as per OSHA PEL.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Off-white solids.

Odor: None.

Odor threshold: Not available.

pH: Not available.

Relative density: 1.6 to 1.8

Melting point/freezing point: Not available.

Initial boiling point and boiling range: Not available.

Flash point: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Upper/lower flammability or explosive limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Partition coefficient: n-octanol/water: Not available.

Solubility(ies): Not available.

Viscosity: Not available.



10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and nitrogen oxides may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid contact with strong oxidizers or acids.

Conditions to Avoid: Heat, flame and incompatibles.

11. Toxicological Information

Oral rat LD50: 8 g/kg.

Inhalation: May cause slight respiratory irritation

Skin Contact: Prolonged contact may lead to irritation, drying or cracking of skin due to water absorption properties of the clay.

Eye Contact: As with any fine dust, may cause slight irritation (mechanical).

Mutagenic Effects: Not available.

Developmental Toxicity: Not available.

Crystalline silica is listed on NTP, IARC and OSHA as carcinogen.

12. Ecological Information

Environmental Toxicity: No information found.

Persistence and Degradability: No information available.

Bioaccumulation/ Accumulation: No information available.

Results of PBT and vPvB assessment: No data available for assessment.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused in accordance with legal requirements.

14. Transport Information

DOT USA & ADR/RID: Not regulated as dangerous goods.

ADR/RID: Not dangerous goods

15. Regulatory Information

No information found.



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Section 16 - Additional Information

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DISCLAIMER: The information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed correct as of the date hereof. It is compiled from various sources and it is not necessarily all inclusive nor fully adequate in every circumstance. In addition, these suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements applicable. This MSDS sheet is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.