

## **Material Safety Data Sheet**

# **Bentonite Clay**

#### www.edi-cp.com

#### 1. General information

The information contained herein was obtained from sources believed to be reliable; Electrochemical Devices, Inc. (EDI) disclaims all liability for the content. This information applies to material in bulk form and may not be relevant to the small quantities of material used in our products. Bentonite clay is present in EDI reference electrodes with AGG, CUG or ZIN in the second grouping of the model designation: the material is entirely contained within the electrode housing. It is also present underground reference electrodes, which are designated by the initial letter **U** in the model designation, and is contained in a cotton bag on these products.

**Synonyms:** Mortmorillonite

CAS#: 1318-93-0

#### 2. Hazard Overview

Appearance: off-white powder.

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The

toxicological properties of this material have not been fully investigated.

Target Organs: None.

#### **Potential Health Effects**

**Eve:** Dust may cause mechanical irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological

properties of this substance have not been fully investigated.

**Inhalation:** Dust is irritating to the respiratory tract. The toxicological properties of this substance have

not been fully investigated. Chronic: No information found.

#### 3. First Aid

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower evelids. Get medical aid immediately.

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

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

Antidote: None reported.

## 4. Fire Fighting

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is noncombustible.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not available.

**Autoignition Temperature:** Not available.

Explosion Limits, Lower: N/A

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NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

#### 5. Accidental Release

**General Information:** Use proper personal protective equipment as indicated in Section 7. **Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

## 6. Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:** Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## 7. Exposure Control

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits:** 

**ACGIH:** none listed **NIOSH:** none listed

OSHA - Final PELs: none listed OSHA Vacated PELs: none listed

#### **Personal Protective Equipment**

**Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## 8. Physical and Chemical Characteristics

Physical State: Powder Appearance: Off-white Odor: None reported. pH: Not available.

Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate: Not available.

Viscosity: Not available. Boiling Point: Not available.

Freezing/Melting Point: Not available.

Decomposition Temperature: Not available.

Solubility: Not available.

Specific Gravity/Density: Not available.

Molecular Formula: Not applicable.

Molecular Weight: Not available.

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## 9. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.

**Incompatibilities with Other Materials:** Oxidizing agents.

Hazardous Decomposition Products: Irritating and toxic fumes and gases.

**Hazardous Polymerization:** Has not been reported.

## 10. Toxicological Information

LD50/LC50: Not available.

Carcinogenicity: CAS# 1318-93-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available. **Teratogenicity:** No information available.

Reproductive Effects: No information available.

**Mutagenicity:** No information available. **Neurotoxicity:** No information available.

## 11. Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** No information found.

Physical: No information found.

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