



# SAFETY DATA SHEET



Distributed by:  
 Laguna Clay Company  
 14400 Lomas Ave  
 City of Industry, CA 91746  
 1-800-4Laguna  
 info@lagunaclay.com  
 www.lagunaclay.com

## 1. Identification

**Product identifier** HECTALITE® 200  
**Other means of identification** Not available.  
**Synonym(s)** Smectite \* Bentonite \* Hectorite \* Sodium-activated Bentonite  
**Recommended use** Bentonite has a variety of uses. It can be used as a rheology modifier, binding agent, adsorbent, hydraulic-barrier, and filler.  
**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** American Colloid Company  
**Address** 2870 Forbs Avenue  
 Hoffman Estates, IL 60192  
 United States  
**Telephone** General Information 800 426-5564  
**Website** <http://www.colloid.com/ISG/safetydata@amcol.com>  
**E-mail**  
**Emergency phone number** Not available.  
**Americas** 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.  
**OSHA defined hazards** Not classified.

#### Label elements

**Hazard symbol** None.  
**Signal word** Not available.  
**Hazard statement** Not available.  
**Prevention** Not available.  
**Response** Not available.  
**Storage** Not available.  
**Disposal** Not available.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

#### Substances

| Chemical name | Common name and synonyms                                         | CAS number | %   |
|---------------|------------------------------------------------------------------|------------|-----|
| Hectorite     | Smectite<br>Bentonite<br>Hectorite<br>Sodium-activated Bentonite | 1302-78-9  | 100 |

#### Constituents

| Chemical name           | CAS number | %    |
|-------------------------|------------|------|
| CALCIUM CARBONATE       | 471-34-1   |      |
| SMECTITE GROUP MINERALS | 1318-93-0  |      |
| QUARTZ                  | 14808-60-7 | <= 8 |
| CRISTOBALITE            | 14464-46-1 | <= 2 |

Bentonite is a UVCB substance sub-type 4. The purity of the product is 100 % w/w. Bentonite is composed mainly of smectite group minerals but the composition is varied, as expected for a UVCB substance, and other mineral constituents will be present in small and varying amounts. These minor constituents are not relevant for classification and labelling.

**Composition comments** The purity of the product is 100% w/w. Impurities are not applicable for a UVCB substance.

#### 4. First-aid measures

**Inhalation** No specific first aid measures noted. Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** No specific first aid measures noted. Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** No specific first aid measures noted. Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion** No specific first aid measures noted. Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

**Most important symptoms/effects, acute and delayed** Dust in the eyes will cause irritation.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically.

**General information** No hazards which require special first aid measures. Provide general supportive measures and treat symptomatically.

#### 5. Fire-fighting measures

**Suitable extinguishing media** Use any media suitable for the surrounding fires.

**Unsuitable extinguishing media** Not applicable, non-combustible.

**Specific hazards arising from the chemical** None known. The product itself does not burn.

**Special protective equipment and precautions for firefighters** None known.

**Fire-fighting equipment/instructions** Material can be slippery when wet.

**General fire hazards** This material will not burn.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

**Methods and materials for containment and cleaning up** Avoid the generation of dusts during clean-up. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

**Environmental precautions** No special environmental precautions required. Prevent further leakage or spillage if safe to do so.

#### 7. Handling and storage

**Precautions for safe handling** Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

**Conditions for safe storage, including any incompatibilities** Store in a dry area. Keep the container dry. No special restrictions on storage with other products.

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Constituents                         | Type | Value    | Form                 |
|--------------------------------------|------|----------|----------------------|
| INERT OR NUISANCE DUSTS (CAS SEQ250) | PEL  | 5 mg/m3  | Respirable fraction. |
|                                      |      | 15 mg/m3 | Total dust.          |

##### US. OSHA Table Z-3 (29 CFR 1910.1000)

| Constituents                         | Type | Value                   | Form                 |
|--------------------------------------|------|-------------------------|----------------------|
| INERT OR NUISANCE DUSTS (CAS SEQ250) | TWA  | 5 mg/m3                 | Respirable fraction. |
|                                      |      | 15 mg/m3                | Total dust.          |
|                                      |      | 50 millions of particle | Total dust.          |
|                                      |      | 15 millions of particle | Respirable fraction. |

**US. ACGIH Threshold Limit Values**

| Constituents                               | Type | Value    | Form                  |
|--------------------------------------------|------|----------|-----------------------|
| INERT OR NUISANCE<br>DUSTS<br>(CAS SEQ250) | TWA  | 3 mg/m3  | Respirable particles. |
|                                            |      | 10 mg/m3 | Inhalable particles.  |

**Biological limit values**

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

**Appropriate engineering controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

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

**Hand protection**

No protection is ordinarily required under normal conditions of use.

**Other**

No special protective equipment required. Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection**

Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

**Thermal hazards**

Not applicable.

**General hygiene considerations**

Use good industrial hygiene practices in handling this material.

**9. Physical and chemical properties****Appearance**

Lump, granular or fine powder.

**Physical state**

Solid.

**Form**

Various.

**Color**

Various.

**Odor**

None.

**Odor threshold**

Not applicable.

**pH**

8.5 - 11

**Melting point/freezing point**

&gt; 842 °F (&gt; 450 °C) / Not applicable.

**Initial boiling point and boiling range**

Not applicable.

**Flash point**

Not applicable.

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

This product is not flammable.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

Not applicable.

**Flammability limit - upper (%)**

Not applicable.

**Explosive limit - lower (%)**

Not available.

**Explosive limit - upper (%)**

Not available.

**Vapor pressure**

Not applicable.

**Vapor density**

Not applicable.

**Relative density**2.6 g/cm<sup>3</sup>**Solubility(ies)****Solubility (water)**

&lt; 0.9 mg/l

**Partition coefficient (n-octanol/water)**

Not applicable.

Not applicable.

**Auto-ignition temperature**

Not applicable.

**Decomposition temperature**

&gt; 932 °F (&gt; 500 °C)

**Viscosity**

Not applicable.

**Viscosity temperature**

Not applicable.

**Other information****Bulk density**0.9 - 1.4 g/cm<sup>3</sup>**Explosive limit**

Not applicable.

**Explosive properties**

Not explosive

|                                          |                 |
|------------------------------------------|-----------------|
| <b>Explosivity</b>                       | Not applicable. |
| <b>Flame extension</b>                   | Not applicable. |
| <b>Flammability</b>                      | Not applicable. |
| <b>Flammability (flash back)</b>         | Not applicable. |
| <b>Flammability (Heat of combustion)</b> | Not applicable. |
| <b>Flammability (Train fire)</b>         | Not applicable. |
| <b>Flammability class</b>                | Not applicable. |
| <b>Flash point class</b>                 | Not flammable   |
| <b>Molecular formula</b>                 | UVCB Substance  |
| <b>Molecular weight</b>                  | Not applicable. |
| <b>Oxidizing properties</b>              | None.           |
| <b>Percent volatile</b>                  | 0 %             |
| <b>pH in aqueous solution</b>            | 8.5 - 11        |
| <b>Specific gravity</b>                  | Not applicable. |
| <b>VOC (Weight %)</b>                    | 0 %             |

## 10. Stability and reactivity

|                                           |                              |
|-------------------------------------------|------------------------------|
| <b>Reactivity</b>                         | Not available.               |
| <b>Chemical stability</b>                 | Stable at normal conditions. |
| <b>Possibility of hazardous reactions</b> | Will not occur.              |
| <b>Conditions to avoid</b>                | Moisture.                    |
| <b>Incompatible materials</b>             | None known.                  |
| <b>Hazardous decomposition products</b>   | None.                        |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| <b>Ingestion</b>    | Not classified.                                                       |
| <b>Inhalation</b>   | Not classified. Inhalation of dusts may cause respiratory irritation. |
| <b>Skin contact</b> | Not classified.                                                       |
| <b>Eye contact</b>  | Not classified. Dust in the eyes will cause irritation.               |

**Symptoms related to the physical, chemical and toxicological characteristics** None known.

### Information on toxicological effects

**Acute toxicity** Not classified.

| Product                                  | Species                                                                                                                                                                                                                                                                                                               | Test Results              |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Hectorite (CAS 1302-78-9)                |                                                                                                                                                                                                                                                                                                                       |                           |
| <b>Acute</b>                             |                                                                                                                                                                                                                                                                                                                       |                           |
| <i>Inhalation</i>                        |                                                                                                                                                                                                                                                                                                                       |                           |
| LC50                                     | Rat                                                                                                                                                                                                                                                                                                                   | > 5.27 mg/l, 4 hrOECD 436 |
| <i>Oral</i>                              |                                                                                                                                                                                                                                                                                                                       |                           |
| LD50                                     | Rat                                                                                                                                                                                                                                                                                                                   | > 2000 mg/kgOECD 425      |
| <b>Skin corrosion/irritation</b>         | Not classified.                                                                                                                                                                                                                                                                                                       |                           |
| <b>Serious eye damage/eye irritation</b> | Not classified. Mild irritant to eyes (according to the modified Kay & Calandra criteria)                                                                                                                                                                                                                             |                           |
| <b>Respiratory or skin sensitization</b> |                                                                                                                                                                                                                                                                                                                       |                           |
| <b>Respiratory sensitization</b>         | Not classified.                                                                                                                                                                                                                                                                                                       |                           |
| <b>Skin sensitization</b>                | Not classified.                                                                                                                                                                                                                                                                                                       |                           |
| <b>Germ cell mutagenicity</b>            | Not classified.                                                                                                                                                                                                                                                                                                       |                           |
| <b>Carcinogenicity</b>                   | No carcinogenicity data available for this product. Sepiolite was evaluated by IARC as class 3 ("Cannot be classified as to carcinogenicity to humans"). Based on read-across with sepiolite, bentonite was assessed as non-carcinogenic. Therefore classification of bentonite for carcinogenicity is not warranted. |                           |
| <b>Reproductive toxicity</b>             | Not classified.                                                                                                                                                                                                                                                                                                       |                           |

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

## 12. Ecological information

### Ecotoxicity

| Product                   |      | Species                                                       | Test Results               |
|---------------------------|------|---------------------------------------------------------------|----------------------------|
| Hectorite (CAS 1302-78-9) |      |                                                               |                            |
| Crustacea                 | EC50 | Daphnia                                                       | > 100 mg/l, 48 hours       |
| Other                     | EC50 | Freshwater algae                                              | > 100 mg/l, 72 hours       |
|                           | LC50 | Freshwater fish                                               | 16000 mg/l, 96 hours       |
|                           |      | Marine water fish                                             | 2800 - 3200 mg/l, 24 hours |
| <b>Aquatic</b>            |      |                                                               |                            |
| Crustacea                 | EC50 | Coon stripe shrimp ( <i>Pandalus danae</i> )                  | 24.8 mg/l, 96 hours        |
|                           |      | Dungeness or edible crab ( <i>Cancer magister</i> )           | 81.6 mg/l, 96 hours        |
| Fish                      | LC50 | Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> ) | 19000 mg/l, 96 hours       |

**Persistence and degradability** Not relevant for inorganic substances

**Bioaccumulative potential** Will not bio-accumulate.

**Mobility in soil** Bentonite is almost insoluble and thus presents a low mobility in most soils.

**Mobility in general** The product has poor water-solubility.

**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** Dispose in accordance with all applicable regulations.

**Hazardous waste code** Not regulated.

**Waste from residues / unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Store containers and offer for recycling of material when in accordance with the local regulations.

## 14. Transport information

### DOT

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 available.

## 15. Regulatory information

### US federal regulations

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Total food additive  
Direct food additive  
GRAS food additive

**US state regulations**

**US. Massachusetts RTK - Substance List**  
Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**  
Not regulated.

**US. Rhode Island RTK**  
Not regulated.

**US. California Proposition 65**  
Not Listed.

**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)                                          | Yes                    |
| New Zealand                 | New Zealand Inventory                                                  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*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** 13-May-2014

**Revision date** 13-May-2014

**Version #** 16

**Further information** This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**NFPA ratings**

**0**

**0**

**0**

**List of abbreviations**

SWERF = Size Weighted Respirable Fraction methodology is a scientific method developed to quantify the content of respirable particles within a bulk product. All details about the SWERF method are available at [www.crystallinesilica.eu](http://www.crystallinesilica.eu).

UVCB = a substance of Unknown or Variable composition, Complex reaction products or Biological materials

**References**

For any information on literature references or toxicity/ecotoxicity studies, please contact the supplier.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision Information**

Product and Company Identification: Alternate Trade Names