

# **Safety Data Sheet**

# 1. Identification

Product Name: Crafter's Choice™Bentonite Clay

Synonyms: Smectile • Bentonite • Bentonite, Sodian • Bentonile, Calcian • Sodium-

activated Bentonite • Montmorillonite

Recommended Use: Not Available

Recommended Restrictions: None known. Workers (and customers, if resold) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be

provided as required under applicable regulations.

**Supplied by:** Crafter's Choice Brands, LLC

7820 E. Pleasant Valley Road Independence, OH 44131

(800) 908-7028

www.crafters-choice.com

In Case of Emergency: ChemTel (MIS3548100)

(800) 255-3924 Domestic USA, Canada, Puerto Rico and USVI

+1 813 248-0585 International

## 2. <u>Hazard(s) Identification</u>

Physical Hazards Not classified
Health Hazards Not classified
Environmental Hazards Not classified
OSHA Defined Hazards Not classified

**Label Elements** 

Hazard Symbol None Signal Word None

Hazard Statement The substance does not meet the criteria for classification.

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials

Disposal Dispose of waste and residues in accordance with local authority requirements.

**Hazards Not Otherwise** 

Classified (HNOC) None known

**Supplemental Information** Not applicable

# 3. Composition / Information on Ingredients

#### **Substances**

Chemical Name	Common Name and Synonyms	CAS Number	<u>%</u>
Bentonite	Smectile	1302-78-9	100
	Bentonite		
	Bentonite, Sodian		
	Bentonile, Calcian		
	Sodium-activated Bentonite		
	Montmorillonite		

#### Constituents

Chemical Name	CAS Number	%
Calcium Carbonate	471-34-1	
Smectite Group Minerals	1318-93-0	
Quartz	14808-60-7	< = 8
Cristobalite	14464-48-1	< = 2

Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret. 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** Occupational Exposure Limits for constituents are listed in Section 8. The purity of the product is 100% w/w. Impurities are not applicable for a UVCB substance.

# 4. First-aid Measures

physician if symptoms develop or persist. No specific first aid measures noted.

**Skin Contact** Get medical attention if irritation develops and persists. No specific first aid measures noted.

Wash skin with soap and water.

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. Get medical assistance if discomfort occurs.

Most important symptoms/affects,

**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.

## 5. Fire-fighting Measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use any media

suitable for the surrounding fires.

**Unsuitable Extinguishing Media** Not applicable, non-combustible.

**Specific Hazards from Chemical** None known. The product itself does not burn.

**Special Protective Equipment** 

and Precautions for Firefighters Material can be slippery when wet.

Fire-fighting Equipment /

**In the event of fire, cool tanks with water spray.** Material can be slippery when wet.

**Specific Methods** Cool containers exposed to flames with water until well after the fire is out.

**General Fire Hazards** No unusual fire or explosion hazards noted. This material will not burn.

## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Material can be slippery when wet. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Avoid inhalation of dust from the spilled material. For personal protection, see section 8 of the SDS. 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

If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

**Environmental precautions** 

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

## 7. Handling and Storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

No special restrictions on storage with other products. Store in a dry area. Store in original tightly closed container. Keep the container dry. Store In a well ventilated place. Store away from Incompatible materials (see Section 10 of the SDS). Guard against dust accumulation of this material.

## 8. Exposure Controls/Personal Protection

#### **Occupational exposure limits**

US. OSHA Table Z-1Limits for Air Contaminants (29 CFR1910.1000)

Constituents	Туре	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	Туре	Value	Form
Inert or Nuisance Dusts (CAS SEQ250)	TWA	5 mg/m3	Respirable fraction
		15 mg/m3 50 mppcf 15 mppcf	Total dust Total dust Respirable fraction

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts rols or fumes that may be generated during handling or thermal processing. 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

there is danger of eye contact.

Hand protection No protection is ordinarily required under normal conditions of use.

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at

levels exceeding the exposure limits.

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Use good industrial hygiene

practices in handling this material.

## 9. Physical and Chemical Properties

**Appearance** Lump, granular or fine powder

Physical state Solid

Form Powder. Various

Color Various Odor None

Odor threshold Not applicable pH 8.5 – 11

Melting point/freezing point > 842°F (> 450°C) / Not applicable

Initial boiling point and rangeNot applicableFlash pointNot applicableEvaporation rateNot available

Flammability (solid, gas)

This product is not flammable

**Upper/lower flammability or explosive limits** 

Flammability limit – lower
Flammability limit – upper
Explosive limit – lower
Explosive limit – upper
Not available
Explosive limit – upper
Not available
Vapor pressure
O kPa at 25°C
Not applicable

Not applicable 2.6 g/cm3

Solubility

Vapor density

**Relative density** 

Solubility (water) < 0.9 mg/l

Partition coefficient Not applicable
(noctanol/water) Not applicable

Auto-ignition temperature Not applicable

Decomposition temperature > 932°F (> 500°C)

Viscosity Not applicable

Viscosity temperature Not applicable

**Other Information** 

**Bulk density** 0.9 - 1.4 g/cm3**Explosive limit** Not applicable **Explosive properties** Not explosive **Explosivity** Not applicable Flame extension Not applicable Flammability Not applicable Flammability (flash back) Not applicable Flammability (Heat of combustion) Not applicable Not applicable Flammability (Train fire) Flammability class Not applicable Flash point class Not flammable **UVCB** Substance Molecular formula Molecular weight Not applicable

Oxidizing properties

Percent volatile

pH in aqueous solution

Specific gravity

None

0%

8.5 – 11

Not applicable

VOC (Weight %) 0%

## 10. Stability and Reactivity

**Reactivity** The product is stable and non-reactive

Chemical stability Stable at normal conditions

Possibility of hazardous reactions Will not occur

**Conditions to avoid** Moisture. Avoid temperature exceeding the decomposition

temperature. Contact with incompatible materials. Avoid dispersal of

dust in the air (i.e. clearing dust surfaces with compressed air).

**Incompatible materials** None known

Hazardous decomposition product None

### 11. Toxicological Information

## Information on likely routes of exposure

Not classified Ingestion

Inhalation of dusts may cause respiratory irritation Inhalation

Skin contact Not classified

Dust in the eyes will cause irritation Eye contact

# Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Not classified Acute toxicity

	Species	Test Results
Acute		
Inhalation		
LC50	Rat	> 5.27 mg/l, 4 hrOECD 436
Oral		
LD50	Rat	> 2000 mg/kgOECD 425

Estimates for product may be based on additional component data not shown.

Skin corrosion / irritation Not classified

Serious eye damage / eye irritation Dust in the eyes will cause irritation. Mild irritant to eyes (according to

the modified Kay and Calandra criteria)

Respiratory or skin sensitization

Respiratory sensitization Not classified Not classified Skin sensitization Germ cell mutagenicity Not classified

Carcinogenicity In June 2003, SCOEL (The EU Scientific Committee on Occupational

> Exposure Units) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient Information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. 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 readacross with sepiolite, bentonite was assessed as non-carcinogenic. Therefore8 classifications of bentonite for carcinogenicity is not

warranted.

Reproductive toxicity Not classified Specific target organ toxicity – single exp. Not classified Specific target organ toxicity - repeated Not classified **Aspiration hazard** 

Not available

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging

effect on the environment.

Product		Species	Test Results
Bentonite (CAS 13	02-78-9)		
Crustacea	EC50	Daphnia	>100 mg/l, 48 hrs
Other	EC50	Freshwater algae	>100 mg/l, 72 hrs
	LC50	Freshwater fish	16000 mg/l, 96 hrs
		Marine water fish	2800-3200 mg/l, 24 hrs
Aquatic			
Crustacea	EC50	Coon Stripe Shrimp (Pandalus danae)	24.8 mg/l, 96 hrs
		Dungeness or edible crab (Cancer magister)	81.6 mg/l, 96 hrs
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	19000 mg/l, 96 hrs

Estimates for product may be based on additional component data not shown

Persistence and degradability

**Bioaccumulative potential** 

Mobility in soil Mobility in general Not relevant for inorganic substances

Will not bio-accumulate.

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

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** Collect and reclaim or dispose in seated containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations.

**Local disposal regulations** Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and

the waste disposal company.

Waste from residues / unused product

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions)

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

> disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. 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 applicable

## 15. Regulatory Information

## **US federal regulations**

CERCLA Hazardous Substance List (40 CFR 302.4) - Not Listed

US.OSHA Specifically Regulated Substances (29 CFR1910.1001-1050) - 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:

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Not regulated

Not regulated

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

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country or region	Inventory Name	On Inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substance 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 Substar	nces (EINESC) 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
USA & 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

**Issue date:** 31-March-2014 **Revision date:** 08-May-2015

Version #: 06

Further Information: This safety data sheet only contains information relating to safety and does not replace

any product information or product specification.

**HMIS Rating:** Health: 1

Flammaibility: 0 Physical Hazard: 0

**NFPA Rating:** Health: 0

Flammability: 0 Instability: 0

**List of Abbreviations:** SWERF = Size-Weighted Relevant Fine Fraction methodology is a scientific method

developed to quantify the content of respirable particles within a bulk product.

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. Crafter's Choice Brands, LLC 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. The information I the sheet was written based on the best knowledge and experience currently

available.