

SECTION 1: IDENTIFICATION

PRODUCT NAME(s) Swell Clay, PondSeal, TrenchSeal, Bentonite

GENERIC NAME Bentonite

MSDS CODE NO. A202PABA005

SYNONYMS Calcium Bentonite, Sodium Bentonite,
Montmorillonite, Smectite Clay

CASE REGISTRY NO. 1302-78-9

MANUFACTURING ADDRESS Western Clay Company
620 East SR 24
Aurora, UT 84620

CONTACT NUMBERS: Emergency: 435-657-3605
Western Clay: 800-982-7960

RECOMMENDED USE Bentonite has a variety of uses. It can be used as a rheology modifier, binding agent, absorbent, filler and other i.e. for applications like: foundry, iron ore agglomeration, drilling, construction - civil engineering, filtration.

USE RESTRICTIONS There are no identified uses advised against.

SECTION 2: HAZARD IDENTIFICATION

GHS CLASSIFICATION Signal: Danger
Causes damage to the lungs through prolonged or repeated exposure if inhaled



HEALTH/PHYSICAL HAZARDS Material dusts containing less than 1% free crystalline silica (quartz) are classified as nuisance particulates. Exposure to these dusts may cause irritation to eyes, ears, throat, and upper respiratory tract. This materials dust may contain more than 1% free silica as Quartz. Chronic (long term) exposure to air born free silica at levels higher than TLV=s may lead to the development of silicosis or other respiratory problems. (See Section VI)

HAZARD LISTING Nuisance Particles are listed by ACGIH. Free Crystalline Silica as Quartz is listed by OSHA and ACGIH as a Hazardous Material.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES	CAS #	PERCENT (w/w)
Bentonite	1302-78-9	80-100%
Crystalline silica, quartz	14808-60-7	0-5%
Crystalline silica, cristobalite	14464-46-1	0-1%
Crystalline silica, tridymite	15468-32-3	0-1%
Water	7732-18-5	8-12%

SECTION 4: FIRST AID MEASURES

INHALATION If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

SKIN Wash with soap and water. Get medical attention if irritation persists.

EYES In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

INGESTION Under normal conditions, first aid procedures are not required.

NOTES TO PHYSICIAN Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT RANGE	Non-flammable Silicate Mineral	FLAMMABLE LIMITS	LEL: NA UEL:NA
FIRE EXTINGUISHING MEDIA	All standard firefighting media	SPECIAL EXPOSURE HAZARDS	Not Applicable
NFPA RATINGS	Health 1, Flammability 0, Reactivity 0	HMIS RATINGS	Health 1*, Flammability 0, Reactivity 0, PPE: At
SPECIAL FIRE FIGHTING PROCEDURES	Not applicable		

SECTION 6: ACCIDENTAL RELEASE MEASURES

MATERIAL SPILL OR RELEASE	Avoid breathing dust; wear respirator approved for silica bearing dust. Vacuum up to avoid generating airborne dust. Avoid using water. Product is slippery when wet.
WASTE DISPOSAL METHOD	Product should be disposed of in accordance with applicable local, state, and federal regulations. There are no known environmental precautionary measures. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage, and disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS	This product may contain quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure limits below permissible limits. Material is slippery when wet.
STORAGE INFORMATION	Do not reuse empty container. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Keep from excessive heat.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS	Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits listed in section 11.
RESPIRATOR	Not normally needed but, in areas that are not properly ventilated use a respirator approved by NIOSH/MSHA for silica bearing dust.
EYE PROTECTION	Use safety glasses or goggles to protect against exposure.
HAND PROTECTION	Normal work gloves.
SKIN PROTECTION	Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.
OTHER PPE	None known.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	powder	COLOR	Tan, Light Green, Red
BULKING VALUE	90 lbs.	DENSITY	70 lb/ft ³ powder or compact granular
MELTING POINT	1450°C	pH	8-10
SOLUBILITY IN WATER	Insoluble, Forms Colloidal Suspension	ODOR	Mild earthy

SECTION 10: STABILITY AND REACTIVITY

STABILITY	Stable	HAZARDOUS POLYMERIZATION	None
INCOMPATIBILITY	None	HAZARDOUS DECOMPOSITION PRODUCTS	None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY TESTS	Oral - ND	Inhalation - ND	Genotoxicity - ND	Primary Irritation Effect - ND
	Dermal - ND	Dermal - ND	Reproductive - ND	

PRINCIPLE ROUTE OF EXPOSURE Eye or skin contact, inhalation

SKIN Possible drying resulting in dermatitis EYES Mechanical irritant

INGESTION Accidentally this material will generally cause no adverse effects. Minor intestinal irritation is possible.

INHALATION (Acute, Short Term) Exposure to excessive concentrations of dust may cause irritation of the Nose, Throat, and Upper Respiratory Tract. (Chronic, Long Term) Chronic exposure to crystalline silica such as quartz where levels exceed TLV=s can cause Silicosis and other respiratory problems. Short term exposure to very high concentrations may lead to increased risk and accelerated onset of silicosis and respiratory damage. Silicosis is a progressive, degenerative, disabling, and sometimes fatal lung disease characterized by coughing, shortness of breath, wheezing, and fibrotic changes in the lungs with scarring and nodular formation.

PERMISSIBLE EXPOSURE LIMITS: (For air contaminants 8 hour TWA)	Bentonite as Nuisance Dust	OSHA PEL	ACGIH TLV
	Total Dust	15mg/m ³	Not determined
	Respirable Dust	5mg/m ³	Not determined
	Crystalline Quartz (respirable)	0.1mg/m ³	0.1mg/m ³

CARCINOGENICITY: Bentonite is not listed by NTP, IARC, or OSHA. The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans, and experimental evidence that tridymite as a carcinogen in animals. The National Toxicology Program (NTP) classifies respirable crystalline silica as "Known to be a human carcinogen."

SECTION 12: ECOLOGICAL INFORMATION

MOBILITY (water/soil/air)	ND	FISH TOXICITY	TLM96: 10000 ppm (<i>Oncorhynchus mykiss</i>)
PERSISTENCE/DEGRADABILITY	ND	CRUSTACEANS TOXICITY	ND
BIO-ACCUMULATION	ND	ALGAE TOXICITY	ND
CHEMICAL FATE INFORMATION	ND	OTHER INFORMATION	ND

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHOD Product should be disposed of in accordance with applicable local, state, and federal regulations. There are no known environmental precautionary measures. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage, and disposal.

SECTION 14: TRANSPORTATION INFORMATION

SHIPPING NAME	Common Ground Clay (NOIBN)	HAZARD CLASS	Not Hazardous	CAUTIONARY LABELING	None required
LAND TRANSPORTATION RESTRICTIONS	DOT: Not Restricted	CANADIAN TDG:	Not Restricted	ADR:	Not Restricted
AIR TRANSPORTATION RESTRICTIONS	ICAO / IATA: Not Restricted	SEA TRANSPORTATION RESTRICTIONS		IMDG:	Not Restricted

SECTION 15: REGULATORY INFORMATION

U.S. REGULATIONS

US TSCA Inventory	All components listed on inventory or are exempt
EPA SARA Title III <i>Extremely Hazardous Substances</i>	Not applicable
EPA SARA (311, 312) <i>Hazard Class</i>	Acute Health Hazard, Chronic Health Hazard
EPA SARA (313) <i>Chemicals</i>	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372)
EPA CERCLA/Superfund <i>Reportable Spill Quantity</i>	Not applicable
EPA RCRA <i>Hazardous Waste Classification</i>	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA
California Proposition 65	The California Proposition 65 regulations apply to this product
MA Right-to-Know Law	One or more components listed
NJ Right-to-Know Law	One or more components listed
PA Right-to-Know Law	One or more components listed

CANADA REGULATIONS

Canadian DSL Inventory	All components listed on inventory
WHMIS Hazard Class	D2A Very Toxic Materials Crystalline Silica

SECTION 16: OTHER INFORMATION

This SDS was updated on 4/2/26. For additional information on the use of this product, or for questions about the Material Safety Data Sheet for this or other Western Clay Company products, please contact:



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