

SAFETY DATA SHEET

Product Code: AB3A005 (BENTONITE) Updated: 12/23/14

SECTION 1: IDENTIFICATION

PRODUCT NAME(s): SR 50, SR 65

GENERIC NAME: Bentonite, Sodium Chloride

Sodium / Calcium Aluminum Silicate

CHEMICAL NAME: Complex Chloride - Sodium Chloride, Potassium

Chloride, Magnesium Chloride

Western Clay Company

CONTACT Emergency: 435-657-3605 MANUFACTURING ADDRESS: 620 East SR 24 NUMBERS: Redmond Minerals: 435-529-7402

Aurora, UT 84620

Redmond Minerals

DISTRIBUTOR ADDRESS: 2725 North 100 West

Redmond, Ut 84652

RECOMMENDED USE: Livestock Mineral Supplement

USE RESTRICTIONS: There are no identified uses advised against.

SECTION 2: HAZARD IDENTIFICATION

Signal: Danger

GHS CLASSIFICATION Causes damage to the lungs through prolonged or repeated exposure if

inhaled

Donagant (res/res)

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

CAC #

of silicosis or other respiratory problems. (See Section VI)

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

Material.

CUDETANCES.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES:	CAS#	Percent (w/w)
Bentonite	1302-78-9	40-50%
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%
Sodium Chloride	7647-14-5	45-49%
Magnesium Chloride	7791-18-6	0.0620%
Potassium Chloride	7447-40-7	0.30-0.20%
Calcium Chloride	10043-52-4	0.30-1.40%

SECTION 4: FIRST AID MEASURES

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

becomes difficult.

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

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

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

SPECIAL EXPOSURE FIRE EXTIGUISHING MEDIA: All standard firefighting media Not Applicable HAZARDS:

Health 0*, Flammability 0, **HMIS RATINGS:** NFPA RATINGS: Health 0, Flammability 0, Reactivity 0 Reactivity 0, PPE: At

SPECIAL FIRE FIGHTING PROCEDURES: Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid breathing dust; wear respirator approved for silica veering dust. Vacuum up to MATERIAL SPILL OR RELEASE:

avoid generating airborne dust. Avoid using water. Product is slippery when wet.

Product should be disposed of in accordance with applicable local, state, and federal regulations. There are no known environmental precautionary measures. Consider WASTE DISPOSAL METHOD:

possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage, and disposal.

SECTION 7: HANDLING AND STORAGE

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only HANDLING PRECAUTIONS:

with adequate ventilation to keep exposer limits below permissible limits. Material is

Do not reuse empty container. Use good housekeeping in storage and work areas to STORAGE INFORMATION:

prevent accumulation of dust. Close container when not in use. Keep from excessive

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Use approved industrial ventilation and local exhaust as required to maintain exposures **VENTILATION REQUIREMENTS:**

below applicable exposure limits listed in section VI.

RESPIRATOR: Use 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.

Wear clothing appropriate for the work environment. Dusty clothing should be laundered SKIN PROTECTION:

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: COLOR: powder Tan, Light Green, Red

70 lb/ft³ powder or compact **BULKING VALUE:** DENSITY: 90 lbs.

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	NI
		PRODUCTS:	None

SECTION 11:TOXICOLOGICAL INFORMATION

TOXICITY TESTS:

Oral ND Genotoxicity ND

Dermal ND Reproductive ND

Primary

Inhalation ND Irritation ND Effect

PRINCIPLE ROUTE OF EXPOSURE: Eye or skin contact, inhalation

SKIN: Possible dying resulting in dermatitis

EYES: Mechanical irritant

INGESTION: Accidentally this material will generally cause no adverse effects. Minor intestinal

irritation is possible.

(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:
 Total Dust
 0.5 Ma PEL ACGIH TLV

 PERMISSIBLE EXPOSURE LIMITS:
 Total Dust
 1.5 mg/m^3 Not determined

 (For air contaminants 8 hour TWA)
 Respirable Dust
 5 mg/m^3 Not determined

 Crystalline Quartz (respirable)
 0.1 mg/m^3 0.1 mg/m^3

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".

OTHER INFORMATION:

ND

CARCINOGENICITY:

CHEMICAL FATE INFORMTION:

INHALATION:

SECTION 12: ECOLOGICAL INFORMATION

MOBILITY (water/soil/air):NDFISH TOXICITY:TLM96: 10000 ppm (Oncorhynchus mykiss)PERSISTENCE/DEGRADABILITY:NDCRUSTACEANS TOXICITY:NDBIO-ACCUMULATION:NDALGAE TOXICITY:ND

SECTION 13: DISPOSAL CONSIDERATIONS

ND

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) HAZZARD Not CAUTIONARY None CLASS: Hazardous LABELING: 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 Extremely Hazardous Substances

Not applicable

EPA SARA (311, 312) Hazard Class Acute Health Hazard, Chronic Health Hazard

EPA SARA (313) Chemicals

This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372)

EPA RCRA Hazardous Waste Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous

California Proposition 65 waste as defined by the US EPA
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.

CANADIAN REGULATIONS:

Canadian DSL Inventory All components listed on inventory.

WHMIS Hazard Class D2A Very Toxic Materials Crystalline Silica

SECTION 16: OTHER INFORMATION

ADDITIONAL INFORMATION:

This SDS was updated on 12/23/14. For additional information on the use of this product, or for questions about the Safety Data Sheet for this or other Redmond Minerals, INC. products, please contact:



EPA CERCLA/Superfund Reportable Spill Quantity

Redmond Minerals, INC.

Not applicable

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