

**ILC RESOURCES  
MATERIAL SAFETY DATA SHEET**

**Section 1 - CHEMICAL PRODUCT & COMPANY**

**IDENTIFICATION**

ILC RESOURCES  
500 New York Avenue  
Des Moines, IA 50313-4908  
MSDS Information: 1-515-243-8106

24-Hour Emergency Number  
1-515-243-8106

PRODUCT NAME: Aldenite

COMMON NAME: bentonite, sodium bentonite,  
sodium montmorillonite

CHEMICAL NAME: bentonite clay

CHEMICAL FAMILY: natural mineral, montmorillonite

CAS# 1302-78-9

**Section 2 - INFORMATION ON HAZARDOUS  
INGREDIENTS**

INGREDIENTS	PERCENTAGES	PEL (OSHA)	TLV (ACGIH)	CAS #
crystalline quartz	0-6%	---	---	14808-60-7
respirable crystalline quartz*	<2%	0.1 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> TWA	14808-60-7
nuisance dust-				
respirable	---	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	---
total	---	15 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	---

**\*WARNING:** This clay product contains a small amount of crystalline silica which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC classifications 2A.

**Section 3 - HAZARDS IDENTIFICATION**

**\* EMERGENCY OVERVIEW \***

Light gray to tan granular, odorless. Non-flammable. Non-hazardous to eyes, skin and throat.

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Eye contact, dermal, inhalation, ingestion.

ACUTE EFFECTS OF OVEREXPOSURE:

Eyes - Nuisance dust

Skin - Non-hazardous

Inhalation - May cause delayed respiratory disease if dust inhaled over a prolonged period of time.

Ingestion - Non-hazardous

**Section 3 - HAZARDS IDENTIFICATION  
(continued)**

CHRONIC EFFECTS OF OVEREXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pulmonary and/or respiratory disease including but not limited to asthma and bronchitis should be precluded from exposure to dust.

CARCINOGENICITY:        NTP: Yes            IARC: Yes            OSHA: No

IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is “limited evidence” of the carcinogenicity of crystalline silica to humans. IARC classification 2A.

**Section 4 - FIRST AID MEASURES**

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact - If material comes in contact with the eyes, promptly wash the eyes with water. Get medical attention if any discomfort continues.

Skin Contact - No special precautions; flush with water.

Inhalation - If a person breathes in large amounts of this material, move the exposed person to fresh air at once. Other measures are usually unnecessary.

Ingestion - No special precautions.

**Section 5 - FIRE-FIGHTING MEASURES**

FLASH POINT: N/A        AUTO IGNITION TEMP: N/A

FLAMMABLE LIMITS IN AIR	<u>LOWER</u>	<u>UPPER</u>
% BY VOLUME	N/A	N/A

EXTINGUISHING MEDIA: Use appropriate media to extinguish source.

SPECIAL FIRE FIGHTING PROCEDURES: Inorganic mineral/non-flammable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sodium bentonite is not a fire hazard nor an explosive hazard.

HAZARD RATINGS:    NFPA 704: Health - 2            Fire - 0            Reactivity - 0

**Section 6 - ACCIDENTAL RELEASE  
MEASURES**

Sodium bentonite is not classified as a “toxic pollutant” or a “hazardous substance” under Sections 307 and 311 of the Clean Water Act. Accidental spills can be cleaned up by sweeping or vacuuming. Material is slippery when wet.

**Section 7 - HANDLING & STORAGE**

HANDLING AND STORING: Store in a dry area; material is an animal feed ingredient. Avoid breathing dust, use NIOSH/MSHA approved respirator where TLV limits for crystalline silica may be exceeded.

**Section 8 - EXPOSURE CONTROL - PERSONAL PROTECTION**

ENGINEERING CONTROLS: Mechanical ventilation may be necessary to maintain dust below exposure levels.

RESPIRATORY EQUIPMENT: An approved NIOSH dust respirator should be used when dust exposure standard is exceeded (nuisance dust 15 mg/m<sup>3</sup>). Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function.

EYE PROTECTION: Safety goggles.

PROTECTIVE CLOTHING: Not essential.

OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.): None.

**Section 9 - PHYSICAL & CHEMICAL PROPERTIES**

APPEARANCE: Light tan to gray granular.

ODOR: Odorless

BOILING POINT: Not determined

SPECIFIC GRAVITY (water=1): 2.5

VAPOR PRESSURE: N/A VAPOR DENSITY (air=1): N/A

SOLUBLE IN WATER: Negligible

EVAPORATION RATE (ether=1): None

pH: N/A

**Section 10 - STABILITY & REACTIVITY**

STABILITY: STABLE   X    
UNSTABLE

INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID: None known.

**Section 11 - TOXICOLOGY INFORMATION**

Note: ILC Resources has not conducted specific toxicity tests on this product.

**Section 12 - ECOLOGICAL INFORMATION**

Note: ILC Resources has not conducted specific ecological tests on this product. The product is an animal feed ingredient.

**Section 13 - DISPOSAL CONSIDERATION**

WASTE DISPOSAL PROCEDURES: Use normal waste disposal procedures which are in compliance with federal, state, and local regulations.

**Section 14 - REGULATORY INFORMATION**

DOT PROPER SHIPPING NAME: Not regulated by DOT DOT HAZARD CLASS: N/A

DOT IDENTIFICATION NUMBER: N/A DOT EMER. RESPONSE GUIDE NO.: N/A

TOXIC SUBSTANCES CONTROL ACT (TSCA): The ingredients of this product are on the TSCA inventory.

**Section 15 - OTHER INFORMATION**

This product does not contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA SECTION 311-312 HAZARD CATEGORIES (40 CFR 370.2):

FIRE: No SUDDEN RELEASE OF PRESSURE: No REACTIVE: No ACUTE: No CHRONIC: No

Quartz in on Canadian WHMIS (Workplace Hazardous Material Information System) Ingredient Disclosure List, Massachusetts Substance List, New Jersey Right to Know Hazardous Substance List, and Pennsylvania Hazardous Substance List.

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