



1. Product and Company Identification

Material name CLOISITE® 30B
Version # 02
Revision date Mar-06-2009
Synonym(s) Organoclay
Manufacturer information Southern Clay Products, Inc.
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 Gonzales, TX 78629 US
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Product Use Cloisite® products are used as plastics additives.

2. Hazards Identification

Emergency overview Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air. Material can be slippery when wet. Harmful in contact with eyes. Cancer hazard. Prolonged exposure may cause chronic effects.
Potential health effects
Routes of exposure Inhalation. Eye contact.
Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury. Do not get this material in contact with eyes.
Skin Avoid contact with the skin.
Inhalation Inhalation of dusts may cause respiratory irritation. May cause cancer by inhalation. Do not breathe dust. Repeated or prolonged inhalation may cause toxic effects. For additional information on inhalation hazards, see Section 11 of this safety data sheet.
Ingestion Do not ingest.
Target organs Eyes. Respiratory system.
Chronic effects Conjunctiva. This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica. Overexposure to dust may result in pneumoconiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.
Signs and symptoms Corneal damage. Conjunctivitis.
Potential environmental effects Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Quartz	14808-60-7	0.1 - 1
Non-hazardous components	CAS #	Percent
Alkyl quaternary ammonium bentonite	341537-63-1	95 - 99

4. First Aid Measures

First aid procedures
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact	Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large amount does occur, call a poison control center immediately.

5. Fire Fighting Measures

Flammable properties	Dusts may form an explosive mixture with air. Take precautionary measures against static discharge.
Extinguishing media	
Unsuitable extinguishing media	Do not use water jet.
Protection of firefighters	
Specific hazards arising from the chemical	Not a fire hazard. The product itself does not burn. Material can be slippery when wet
Protective equipment and precautions for firefighters	Use any media suitable for the surrounding fires. Not a fire hazard.

6. Accidental Release Measures

Personal precautions	Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.
Environmental precautions	Do not flush into surface water. Do not let product enter drains. Prevent further leakage or spillage if safe to do so.
Methods for containment	Prevent entry into waterways, sewers, basements or confined areas. Avoid allowing water runoff to contact spilled material. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Contaminated surfaces will be extremely slippery.
Methods for cleaning up	Sweep up or gather material and place in appropriate container for disposal. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Avoid dust formation.

7. Handling and Storage

Handling	Do not get this material in contact with eyes. Do not breathe dust from this material. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. 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. Wear personal protective equipment. Avoid prolonged exposure. Wash thoroughly after handling. Handle and open container with care.
Storage	Guard against dust accumulation of this material. Keep in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value	Form
Quartz (14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Additional components	Type	Value	Form
Nuisance Particulates (seq250)	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Inhalable particles.

U.S. - OSHA

Components	Type	Value	Form
Quartz (14808-60-7)	TWA	0.1 mg/m ³ 0.3 mg/m ³	Respirable dust. Total dust.
Additional components	Type	Value	Form
Nuisance Particulates (seq250)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.
	TWA	15 mppcf	Respirable fraction.
		15 mg/m ³	Total dust.
		5 mg/m ³	Respirable fraction.
		50 mppcf	Total dust.

Exposure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.
Engineering controls	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields.
Skin protection	Protective gloves.
Respiratory protection	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
General hygiene considerations	Do not breathe dust. Avoid contact with eyes. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Physical state	Solid.
Form	Powder.
Color	Off-white.
Odor	Odorless.
pH	Not applicable
Melting point	Not available.
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Auto-ignition temperature	374 °F (190 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	0.05 g/l
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	1.5 - 1.7
Relative density	Not available.
Solubility (water)	Insoluble
Percent volatile	0 % estimated
Viscosity	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Incompatible materials	None known.

Material name: CLOISITE® 30B

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MSDS US

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Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological Information

Local effects

Contact may irritate or burn eyes.

Chronic effects

Hazardous by OSHA criteria. Prolonged exposure may cause chronic effects. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) 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.

Carcinogenicity

Hazardous by OSHA criteria. Cancer hazard. Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs on Occupational Exposures to Chemical Agents: Overall evaluation

Quartz (14808-60-7)

1 Human carcinogen.

US ACGIH Threshold Limit Values: A2 carcinogen

Quartz (14808-60-7)

Group A2 Suspected human carcinogen.

US NTP Report on Carcinogens: Known carcinogen

Quartz (14808-60-7)

Known carcinogen.

12. Ecological Information

Ecotoxicity

This product has no known eco-toxicological effects.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Not applicable.

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous
chemical

Yes

Inventory status

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)	No
Europe	European Inventory of New and Existing Chemicals (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)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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)

State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Quartz (14808-60-7) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (14808-60-7) Listed: October 1, 1988 Carcinogenic.

US - Massachusetts RTK - Substance List: Carcinogenic substance

Quartz (14808-60-7) Carcinogenic.

US - Massachusetts RTK - Substance List: Extraordinarily hazardous

Quartz (14808-60-7) Extraordinarily hazardous.

US - Massachusetts RTK - Substance: Listed substance

Quartz (14808-60-7) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Quartz (14808-60-7) Listed.

16. Other Information

Recommended restrictions

Workers (and your customers or users in the case of resale) 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.

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1*
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 0
Instability: 0

Disclaimer

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Issue date

Mar-06-2009

**This data sheet contains
changes from the previous
version in section(s):**

Product and Company Identification: Synonyms
Hazards Identification: Emergency overview
Composition / Information on Ingredients: Disclosure Overrides
Fire Fighting Measures: Fire & Explosion Properties
Fire Fighting Measures: Flammable properties
Fire Fighting Measures: Protective equipment and precautions for firefighters
Fire Fighting Measures: Specific hazards arising from the chemical
Exposure Controls / Personal Protection: Respiratory protection
Physical & Chemical Properties: Physical & Chemical Properties
Regulatory Information: US federal regulations