



MATERIAL SAFETY DATA SHEET

(Complies with OSHA CFR 1910.1200, ANSI Z 400.1-1993, Canada's WHMIS, EEC Directives and Mexico Requirements)

GARAMITE® 1958

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product identification: Alkyl Quaternary Ammonium Clay

Trade Name(s): GARAMITE® 1958

Product use: Rheological additive

Manufacturer/Supplier 24 HR. EMERGENCY TELEPHONE NUMBERS

Southern Clay Products, Inc.
1212 Church Street
Gonzales, TX 78629

Customer Service (830) 672-2891
Emergency Telephone (8 a.m. - 5 p.m. CST): (830) 672-2891
CHEMTREC (US): (800) 424-9300
CHEMTREC (International): (703) 527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS No.
Alkyl Quaternary Ammonium Clay	Proprietary

Hazardous Ingredients:

None

3. HAZARDS IDENTIFICATION

HMIS Rating: Health=1* (possible hazard from chronic exposure to dust, see Section 11), Flammability =1, Reactivity =1, Personal Protective Equipment =E

EMERGENCY OVERVIEW: Under normal usage or contained spills this material should not pose a significant emergency risk. If high dust levels are generated (dust clouds obscuring vision), this material has a potential to be a flammable and explosive hazard (See Section 5). Large spills should be contained with water mist and cleaned up using a method that will not generate excessive dust levels. This material is also very slippery when wetted with water, oils or solvents. Appropriate precautions should be taken to avoid slips and falls.

POTENTIAL HEALTH EFFECTS:

Eyes: May cause slight eye irritation. Direct contact should be avoided to prevent physical abrasion.



Skin: There is limited evidence of skin irritation of this product, however this material is a potential allergen due to its content of quaternary amine. Quaternary amine content of this product may cause dermatitis or itching in some individuals. Chronic dermal exposure effects for quaternary amine are not known.

Inhalation: Control dust levels with engineering controls (local exhaust ventilation). Prevent dust inhalation with use of a NIOSH approved dust respirator if engineering controls are inadequate.

Carcinogenicity: None known

Target Organs: None known

4. FIRST AID MEASURES

Skin: Wash off with soap and water.

Eye: Flush with tepid water for 15 minutes. If irritation or pain persist, seek medical attention.

Inhalation: Remove person to fresh air. Seek medical attention if shortness of breath or irritation persists.

Ingestion: Could result in intestinal blockage. If large amounts are swallowed seek medical attention.

Notes to Physician: Mixture is orally non-toxic. See Section 11 for additional toxicological data.

5. FIRE FIGHTING MEASURES

Excessive airborne dust may be a fire and explosion hazard.

Flashpoint:	Not determined
Upper Explosive Limit:	Not determined
Lower Explosive Limit:	Undetermined for this product.
Autoignition Temperature:	Not determined
Thin-film Ignition Temperature:	Dust clouds and thin dust films may ignite at high temperatures. The temperature is undetermined for this product.
Known or anticipated hazardous products of combustion:	Nitrogen oxides, carbon monoxide, hydrogen chloride
Basic fire fighting guidance:	Normal precautions for organic dusts should be provided. Avoid high dust concentrations and ensure all equipment is properly grounded to prevent static discharges.
Extinguishing media:	Water mist/fog, dry chemical, foam, carbon dioxide. AVOID water jets.

6. ACCIDENTAL RELEASE MEASURES

Wet down large spills with water mist to avoid generating excessive dust levels. Remove ignition and static electricity sources if large amounts of airborne dust are present. Caution: This material is very slippery when wet. Appropriate precautions should be taken avoid slips and falls.

Clean-up procedures and equipment: Use of a dustless vacuum system or shoveling. Flushing with water is also an acceptable method. Avoid dry sweeping or other methods that may generate high dust concentrations. Wear NIOSH approved dust respirator.

7. HANDLING AND STORAGE

Handling: Adequate ventilation is necessary in handling areas to prevent excessive airborne dust. Explosion-proof equipment is recommended. Take precautions to ensure that all equipment is properly grounded in order to avoid static discharge.

Do not allow dust to collect on surfaces, in order to prevent explosion hazards.

Keep away from ignition sources, open flames and excessive heat.

Store separately from strong oxidizers and acids.

Storage: Store in closed containers in a dry area away from flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide general or local ventilation for adequate dust control.

Personal Protection Equipment:

Eye/face: Use safety glasses or goggles.

Skin: Use chemical resistant gloves.

Respiratory: Use a NIOSH approved, air purifying dust respirator if dust levels are above exposure limits.

Half-masks are sufficient for normal use.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	off-white powder
Odor:	mild
Physical State:	solid
pH:	not available
Vapor Pressure:	not applicable
Vapor Density:	not applicable
Boiling Point:	not applicable
Melting Point:	not applicable
Solubility in Water:	negligible
Specific Gravity:	1.5 - 1.7

10. STABILITY AND REACTIVITY

Incompatibilities: Avoid contact with strong oxidizers or acids.

Conditions to avoid: Heat and open flame.

Stability: This material is stable under normal storage and handling conditions.

Hazardous Polymerization: not applicable

Decomposition: Organic decomposition onset temp. is approx. 200°C

11. TOXICOLOGICAL INFORMATION

Inhalation Effects: Short term exposure to high dust levels could cause minor irritation or shortness of breath.

Skin Contact: Prolonged skin contact may lead to drying or cracking of the skin due to water absorption properties of the clay.

Eye Contact: As with any dust, may be irritating to the eyes due to physical abrasion.

Medical Conditions Aggravated: Respiratory disorders. May pose as an allergen for persons who are strongly allergic to quaternary amines.



Occupational Exposure Limits:

ACGIH TWA	ACGIH STEL	OSHA PEL (Respirable)	OSHA PEL (Total Dust)
Not available	Not available	Not available	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: None known.

13. DISPOSAL CONSIDERATIONS

Although not classified as a hazardous waste, this material is unsuitable for incineration, chemical or biological degradation.

Dispose of in a manner in accordance with local and federal regulations.

This information applies to materials as manufactured; contamination or processing may change waste characteristics and requirements.

14. TRANSPORT INFORMATION

This material is not regulated by the Department of Transportation

15. REGULATORY INFORMATION

SARA 313: None known

US TSCA Inventory: Registered with all components listed on the inventory

European Inventory: Registered with all components listed on the inventory

Canadian DSL: Registered with all components listed on the DSL

Australian AICS: Registered with all components listed on the registry

Japanese ENCS: Not available

16. OTHER INFORMATION

Prepared by: Quality Engineering Department, Southern Clay Products

Date of issue: Revision 5: March 7, 2006

MANUFACTURER DISCLAIMER: The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.