

June 1, 2002

MATERIAL SAFETY DATA SHEET
Substance: **CHLORITE**

Group **CHLORITE**

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MEDICAL EMERGENCY INFORMATION
Contact: 1-303-623-5716 (24 HRS)
RKY. MTN. POISON CONTROL CENTER

SUBSTANCE INFORMATION

SUBSTANCE: CHLORITE **CAS-Number:** 1318-59-8
SYNONYMS: None known
CHEMICAL FAMILY: Silicate
MOLECULAR FORMULA: $3MgO \cdot 2Al_2O_3 \cdot 3SiO_2 \cdot H_2O$

PRODUCT NAMES: The health and safety data contained herein applies to Luzenac America chlorite products bearing the following names:

SIERRALITE 252; SIERRALITE 252/252HS;
SIERRALITE 252HS; SIERRALITE 402;
SIERRALITE 402/402HS
SIERRALITE 402HS; SIERRALITE 504;
SIERRALITE 603 (formerly SIERRASPERSE)

COMPONENTS

MAJOR: Chlorite, CAS #1318-59-8 **CONCENTRATION:** ~ 96-100%

MINOR COMPONENTS: Chlorite is a naturally occurring mineral which may, depending on the product, contain varying minor amounts of the following non-chlorite minerals:

Talc - CAS #14807-96-6 0 - 2%
Magnesite - CAS #546-93-0 0 - 2%
Quartz, CAS #14808-60-7 0 - 2%

EXPOSURE LIMITS**CHLORITE**

5 mg/m³ OSHA PEL TWA (respirable dust)
10 mg/m³ ACGIH TLV TWA (inhalable particulates)

QUARTZ

0.1 mg/m³ OSHA TWA (respirable dust)
0.1 mg/m³ ACGIH TWA (respirable dust)

PHYSICAL DATA**CHLORITE**

DESCRIPTION: Slight earthy odor, white to grayish-white, fine powder.
DECOMPOSITION TEMPERATURE: 1022°-1832°F (550°-1000°C)
LOI @ 1000°C: 11 - 13% **SPECIFIC GRAVITY:** 2.7-2.8
SOLUBILITY IN WATER: Insoluble **pH:** Slightly alkaline
HARDNESS: 2-3 MOHS

FIRE AND EXPLOSION DATA**CHLORITE**

FIRE AND EXPLOSION HAZARD: None
FIRE FIGHTING MEDIA: None
FLASH POINT: None

REACTIVITY SECTION**CHLORITE**

REACTIVITY: Stable
INCOMPATIBILITIES: None
DECOMPOSITION: None hazardous

TOXICITY**CHLORITE**

TOXICITY DATA: No data available.
CARCINOGEN STATUS: No data available.

TALC

NIOSH Registry Number: WW2710000
SAX Toxicity Evaluation: THR: Not available
Carcinogenic Status:
IARC Cancer Review: Human Inadequate Evidence
NTP: Not listed (currently under review). A 2-year inhalation study demonstrated clear evidence of carcinogenic activity in female rats at exposure levels of 18 mg/m³. Some evidence of carcinogenic activity was observed in male rats at the same level. No evidence of carcinogenic activity was found in mice (NTP TR-421).
Tumorigenic Data:
TCLo: inh-rat 11 mg/m³/1Y-1
TDLo: imp-rat 200 mg/kg

QUARTZ

TOXICITY DATA: Tumorigenic data (RTECS).
CARCINOGENIC STATUS: Human sufficient evidence, animal sufficient evidence (Respirable quartz: IARC Group-1).

HEALTH EFFECTS AND FIRST AID**→ INHALATION****CHLORITE/MAGNESITE/TALC MIXTURE**

ACUTE EXPOSURE: Exposure to a large concentration of air-borne dust of this material may cause mechanical irritation of the mucous membranes and respiratory tract.

CHRONIC EXPOSURE: No data available.

QUARTZ

ACUTE EXPOSURE: Exposure to high concentrations of respirable crystalline silica may cause physical discomfort of the upper respiratory tract.

CHRONIC EXPOSURE: Inhalation of very high concentrations of finely divided respirable crystalline silica dust may cause a rapidly developing silicosis or cancer.

FIRST AID

Remove from exposure area to fresh air. If breathing has stopped, perform artificial respiration and get medical attention immediately. Keep person warm and at rest. Treat symptomatically and supportively.

→ SKIN CONTACT

ACUTE EXPOSURE: Direct contact may cause dryness, or may cause mild irritation if an allergic predisposition exists.

CHRONIC EXPOSURE: Prolonged contact may cause dryness of the skin, or may cause mild irritation if an allergic predisposition exists.

FIRST AID

Apply common skin moisturizers to relieve dryness. Irritations are uncommon; however, if irritation or redness develops, seek medical attention. Broken skin can be cleansed with mild soap and water.

→ EYE CONTACT

ACUTE EXPOSURE: Direct contact with dust may cause mechanical irritation of the eyes.

CHRONIC EXPOSURE: Repeated exposure may cause conjunctive inflammation.

FIRST AID

Wash eyes with large amounts of water or normal saline solution. If irritation or redness develops, seek medical attention.

→ INGESTION

ACUTE EXPOSURE: No data available.

CHRONIC EXPOSURE: No data available.

FIRST AID

Treat symptomatically and supportively. If vomiting occurs, keep head lower than hips to prevent aspiration.

STORAGE AND DISPOSAL

STORAGE: Preserve in sealed containers to prevent dispersion of dust in air.

WASTE DISPOSAL: Dry material can be landfilled. Observe all federal, state and local regulations. Responsibility for proper waste disposal is with the owner of the waste.

CONDITIONS TO AVOID: Prevent dispersion of dust in air.

ACCIDENTAL SPILLS: For large spills, shovel or sweep up (while keeping dispersion of dust in air to a minimum) and place into suitable sealed containers for reclamation or later disposal. Residue should be cleaned up using a high-efficiency particulate filter vacuum. The use of water wash-down is not recommended. Wet material can cause a surface used for walking to become extremely slippery.

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

RCRA: Chlorite is not considered a hazardous waste by RCRA criteria (40 CFR 261). State and local regulations/restrictions are complex and may differ from Federal regulations.

PROTECTIVE EQUIPMENT

VENTILATION: Provide local exhaust or process enclosure ventilation to meet published exposure limits.

RESPIRATOR: The following maximum-use concentrations and respirators are recommendations by the U.S. Department of Health and Human Services; NIOSH Pocket Guide to Chemical Hazards; NIOSH criteria documents; or by the U.S. Department of Labor, 29 CFR 1910 subpart Z.

Maximum-Use Concentration	Respirator
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CHLORITE

10 mg/m ³	Any dust and mist respirator.
20 mg/m ³	Any dust and mist respirator except single-use and quarter-mask respirators.
50 mg/m ³	Any powered air-purifying respirator with a dust and mist filter.

QUARTZ

0.25 mg/m ³	Any dust and mist respirator.
0.5 mg/m ³	Any dust and mist respirator except single-use and quarter-mask respirators.

CLOTHING: Protective clothing is not required.

GLOVES: Protective gloves are not required, but may be worn to prevent skin dryness or irritation due to skin allergy.

EYE PROTECTION: Employees should wear dust-resistant safety goggles to prevent eye contact with high concentrations of air-borne dust of this substance. Where there is a possibility that an employee's eyes may be exposed to bulk quantities or high concentrations of air-borne dust of this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

ADDITIONAL INFORMATION

National Paint and Coatings Association - Hazardous Material Identification System (HMIS)

HEALTH HAZARD: 1 - slight

FLAMMABILITY HAZARD: 0 - minimal

REACTIVITY HAZARD: 0 - minimal

PERSONAL PROTECTION: E - glasses, gloves, dust respirator

DOT CLASS: Non-hazardous. Chlorite is not regulated by DOT.

EPA TSCA STATUS: All ingredients are included on the TSCA Inventory of Chemical Substances.

CEPA DSL STATUS: All ingredients are included on the Canadian Domestic Substance List.

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END OF MSDS GROUP CHLORITE