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Form #: STI-079

Date: revision 002 9/30/2014

Section 1. Product Identification: LRA

Part Numbers: LRA

Section 2. Hazards Identification

Emergency Overview: Odorless fine tan/gray powder. Prolong and repeated exposure to excessive concentrations of this product's dust, or any nuisance dust, can cause chronic pulmonary disease, Dust contact with eyes may cause temporary scratchiness or redness. This product has not been classified as a carcinogen by NTP or IARC.

Potential Health Effects: Medical conditions aggravated by exposure: Pre-existing upper respiratory and lung disease such as, but not limited to bronchitis, emphysema and asthma.

Target Organs: Lungs, Eyes.

Routes of Exposure:

Eyes: May cause temporary irritation or inflammation.

Skin: No adverse effects expected.

Ingestion: No adverse effects expected.

Inhalation: May cause irritation of respiratory tract due to drying and abrasive actions of dust. In extreme exposures some congestion may occur.

Chronic Effects: Prolonged and repeated exposures to excessive concentrations of product dust, in excess of the PEL/TLV, can cause chronic pulmonary disease.

Carcinogenic Effects: IARC: Not listed NTP: Not listed OSHA: Not regulated

Section 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>	<u>PEL and TLV</u>
Synthetic Calcium Silicate, CaSiO ₃	1344-95-2	100 %	OSHA 5 mg/M ³ Respirable Nuisance Dust ACGIH 10 mg/M ³ Total Nuisance Dust

Synonyms: Calcium silicate, Belite, Calcium orthosilicate, Dicalcium silicate.

Section 4. First Aid Measures

Skin: Wash material off skin with soap and water. Seek medical attention if irritation occurs.

Eyes: Flush with copious amounts of water for 15 minutes. Seek medical attention if irritation occurs.

Ingestion: Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.

Inhalation: Remove to fresh air. Drink water to clear to clear throat and blow nose to evacuate dust. Seek medical attention if cough or respiratory symptoms develop.

Section 5. Fire Fighting Measures

Flash Point: Not applicable

Non-flammable: OSHA Method 16CFR1500.44 (Incorporated by reference in 29CFR1920.1200).

Flammability Limits in Air: LFL and UFL Not Applicable.

Auto ignition temperature: Not applicable

General Hazard: Not considered to be a fire hazard.

Fire Fighting Instructions: Isolate large fires and allow to burn out. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

Fire Fighting Equipment: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

Hazardous Combustion Products: Under certain conditions, any airborne dust be an explosion hazard. Hazard greater as fineness increases.

Special Fire Hazard: None.

NFPA rating: Health: 1, Flammability: 0, Reactivity: 0

Section 6. Accidental Release Measures

If a Spill or Leak Occurs: Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal from eyes, skin, and clothing. Prevent product from entering drains.

Disposal Method: Use a dust suppressant such as water if sweeping or shoveling into suitable containers for disposal. Dispose in a facility for non-hazardous wastes. Spent should be disposed of in accordance with State and Federal laws.

Container Disposal: Do not reuse empty bags or drums. Dispose of used bags in facility permitted for non-hazardous wastes.

Section 7. Handling and Storage

Handling: Avoid prolonged contact with eyes and skin. Do not breathe dust. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling. Seal broken bags immediately.

Storage: Store in cool, dry, ventilated area and in closed containers. Keep away from oxidizers, heat or flames. Store away from ignition sources.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Use local exhaust to control emissions near the source. Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

Eye Protection: Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing equipment available.

Skin protection: Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection: Keep dust exposure to a minimum with engineering and administrative controls. Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer.

Airborne Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS
Calcium silicate 1344-95-2	5 mg/m ³ TWA respirable nuisance dust	10 mg/m ³ TWA total nuisance dust	PEL is the Permissible Exposure Limits established by OSHA.

TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

Section 9. Physical and Chemical Properties

Physical State: Solid

Appearance and odor: Fine tan/gray powder with no odor

pH: 7.5—9.5

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Evaporation Rate: Negligible

Freezing Point: Not applicable

Volatiles %: Not applicable

Specific Gravity: 2.3 (Water = 1)

Solubility: Negligible in water

Molecular Formula: CaSiO₃

Molecular weight: 172.24

Section 10. Stability and Reactivity

Stability: This product is stable under the specified conditions of storage, shipment and use. Avoid storing at high temperatures or in direct sunlight.

Incompatibility: Hydrofluoric acid.

Hazardous Decomposition Products: None in designed use.

Hazardous Polymerization: Does not occur.

Section 11. Toxicological Information

Acute Toxicity LD50/LC50: No information found relating to normal routes of occupational exposure.

Carcinogenicity: CAS# 1344-28-1: IARC: Not listed NTP: Not listed OSHA: Not regulated

Target Organs or System: Eyes, skin and upper respiratory system.

Signs and Symptoms of Exposure: Skin: May cause Irritation and redness. Eyes: Nuisance dust, dust may cause mechanical eye irritation. Inhalation: Nuisance dust, may be irritating to mucous membranes and upper respiratory tract, lung injury may occur. Ingestion: Ingestion of large amounts may cause gastrointestinal tract irritation. It is expected to be a low hazard for normal industrial handling.

Section 12. Ecological Information

Ecotoxicity: Not determined on the finished product

Persistence/ Degradability: Not determined on the finished product

Bioaccumulation/Accumulation: Not determined on the finished product

Mobility in Environmental Media: Not determined on the finished product

Aquatic Toxicity: May cause long-term adverse effects in the aquatic environment.

Section 13. Disposal Considerations

This product is not considered a hazardous waste. Vacuum or shovel material into a closed container for reuse or disposal. Storage and disposal should be in accordance with applicable local state and federal laws and regulations.

Local regulations may be more stringent than state or federal requirements.

RCRA P-Series: None listed

RCRA U-Series: None listed

Section 14. Transport Information

Land: US DOT: Not regulated

DOT Proper Shipping Name: Amorphous Alumina Silicate

Water: IMO/IMDG: Not regulated

Air: IACO/IATA: Not regulated

Section 15. Regulatory Information

US Federal

TSCA: CAS# 1344-95-2 is listed on the TSCA inventory.

CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

SARA Codes: None.

SARA Section 313: None.

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

States

CAS# 1344-95-2

California Prop 65: Not listed.

Section 16. Additional Information

HMIS Rating (USA):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E (safety glasses, gloves, dust respirator)

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to these products or handling of these products. Customers/users must comply with all applicable health and safety laws, regulations, and orders.

SDS REVISION SUMMARY: revision 002 replaces revision 001 dated 1/28/2014.