

Safety Data Sheet

C-TEC LSZ4A, C-TEC LSZ4AF

SDS No. 9638.7

Date of Preparation: 7/16/96

Revision: 8/4/15

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: C-TEC LSZ4A, C-TEC LSZ4AF

Synonyms: Charring agent.

General Use: Fire retardant.

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

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Preparer: Stephanie Nichols

Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200: Hazardous

Carcinogenicity: Class 1

Signal Word: Danger



Symbols:

Hazard Statements:

May cause cancer by inhalation.

Precautionary Statements:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

Dispose of contents in accordance with local regulations.

Store locked up.

Hazards not otherwise classified: None

HMIS

H 1

F 0

R 0

PPE† E

†Sec. 8

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Percent by Weight
Crystalline Silica	14808-60-7	Max 0.6%

There are no other ingredients classified as health hazards in accordance with paragraph (d) of 1910.1200.

Section 4 - First Aid Measures

Description of necessary measures subdivided according to the different routes of exposure:

Inhalation: If overcome by high dust concentrations, remove to a ventilated area.

Eye Contact: Flush eyes thoroughly for 15 minutes taking care to rinse under eyelids. Do not scrub. Abrasion may cause irritation. If discomfort continues, continue to wash with water. If irritation persists, consult a physician.

Skin Contact: Wash skin thoroughly with soap and water for at least 15 minutes. Consult a physician if irritation persists.

Ingestion: Not applicable.

Most important symptoms/effects, acute and delayed: Irritation of respiratory tract, eyes, skin.

Indication of immediate medical attention and special treatment needed: None

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, carbon dioxide, or other dry chemical.

Unsuitable Extinguishing Media: None known.

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: None known.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid formation and inhalation of dust. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Wear suitable protective equipment. Dispose of spilled material in accordance with local regulations.

Methods and materials for containment and cleaning up: Sweep or vacuum up. Collect spilled material in suitable containers or bags for recovery or disposal.

Section 7 - Handling and Storage

Precautions for safe handling: Avoid generating dust during handling. Store in a closed container in a dry area. Do not store in open, inadequate, or miss-labeled packaging.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Dust mask recommended.

Protective Clothing/Equipment: Wear protective gloves and glasses. Contact lenses are not eye protective devices.

Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Particulates not otherwise classified	15 mg/m ³ total 5 mg/m ³ respirable	none estab.	none estab.	none estab.
Crystalline Silica	(30 mg/m ³ / (%SiO ₂ +2)) total dust (10 mg/m ³ / (%SiO ₂ +2)) respirable dust	none estab.	.025 mg/m ³ respirable	None estab.

Note: For the purpose of reporting for Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.0 the maximum percent by weight Zinc content is 12.46.

Section 9 - Physical and Chemical Properties

Appearance: white powder
Odor: odorless
Odor Threshold: n/e
pH: not available
Freezing/Melting Point: not applicable
Boiling Point: not applicable
Flash Point: not applicable
Flash Point Method: not applicable
Evaporation Rate: not applicable
Flammability: Non-flammable.
Upper/lower flammability or explosive limits: not applicable

Vapor Pressure: not applicable
Vapor Density (Air=1): not applicable
Relative Density: 3.2
Water Solubility: Slightly soluble
Other Solubilities: not applicable
Partition coefficient: n-octanol/water; not applicable
Auto-ignition Temperature: Not applicable
Decomposition Temperature: not determined
Viscosity: not applicable

Section 10 - Stability and Reactivity

Reactivity: Stable under ambient temperatures and pressures.

Chemical stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: Copper and copper-containing materials including bronze and brass.

Hazardous Decomposition Products: Gaseous ammonia (NH₃) may evolve upon thermal decomposition.

Section 11- Toxicological Information

Information on the likely routes of exposure: Eye, Skin, and Inhalation.
Symptoms related to the physical, chemical, and toxicological characteristics:
Eye Effects: May cause irritation through mechanical abrasion.
Skin Effects: May cause irritation through mechanical abrasion.
Inhalation: Overexposure to dust may cause irritation to the respiratory tract.
Ingestion: not applicable.
Delayed and immediate effects and also chronic effects from short- and long-term exposure: None known.
Carcinogenicity: IARC and NTP have listed crystalline silica as a human carcinogen.

Section 12 - Ecological Information

Eco-toxicity: Contains a zinc compound which is classified as very toxic to aquatic life.
Persistence and degradability: Not determined.
Bio-accumulative potential: Not determined.
Mobility in soil: Not determined.

Section 13 - Disposal Considerations

Disposal: Recycle if possible or landfill. This substance is inert and does not require special disposal methods. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101): This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.
UN Number: None
UN proper shipping name: None
Transport hazard class: None
Packing group: None
Environmental hazards: Marine pollutant
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: not restricted
Special precautions: None

Section 15 - Regulatory Information

EPA Regulations:
 RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
 RCRA Hazardous Waste Classification: Not classified
 CERCLA Hazardous Substance (40 CFR 302.4) Not listed
 SARA Toxic Chemical (40 CFR 372.65): Not listed
 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed
 Zinc or Zinc compounds are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.0

OSHA Regulations:
 Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA

This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

INTERNATIONAL REGULATIONS

Canadian Domestic Substances List: Components of this product are listed on the Canadian DSL.

Europe: This substance or all of its components are listed on EINECS, the European Inventory of Existing Commercial Chemical Substances.

Australia: Components of this product are listed on AICS, the Australian Inventory of Chemical Substances.

China: Components of this product are listed on the Chinese Inventory.

Japan: Components of this product are listed on ENCS, the Japanese Existing and New Chemical Substances list.

Korea: Components of this product are listed on the ECL, the Korean Existing and Evaluated Chemical Substances list.

Philippines: Components of this product are listed on PICCS, the Philippines Inventory of Chemicals and Chemical Substances.

Swiss: Components of this product are listed on Giftliste, List of Toxic Substances.

WHMIS: Components of this product are listed as uncontrolled products by WHMIS.

Section 16 - Other Information

Prepared By: Stephanie Nichols

Revision Notes: Updated Sections 2, 3, 8, and 11.

Product Grades Available from the R. J. Marshall Company (this list may be incomplete):

C-TEC LSZ4A	C-TEC LSZ4AF
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