

# Safety Data Sheet

C-TEC LSZ4A, C-TEC LSZ4AF

MSDS No. 9638.6

Date of Preparation: 7/16/96

Revision: 4/8/15

## 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

26776 W. 12 Mile Road

Southfield, MI 48034-7807

Phone: (248) 353-4100, Fax: (248) 948-6460

**Emergency Phone:** (800) 424-9300

**Date Revised:** 4/8/15

**Preparer:** Stephanie Nichols

## Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200: Non-hazardous

Signal word: None

Symbol: None

Hazard Statements: None

Precautionary Statements: None

Hazards not otherwise classified: None

**HMIS**

**H** 1

**F** 0

**R** 0

**PPE**<sup>†</sup> E

<sup>†</sup>Sec. 8

## Section 3 - Composition / Information on Ingredients

There are no 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
Inorganic Filler (as nuisance dusts)	15 mg/m <sup>3</sup> total 5 mg/m <sup>3</sup> respirable	none estab.	none estab.	none estab.
Zinc Compounds	none estab.	none estab.	none estab.	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 (NH<sub>3</sub>) 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:** Neither this product nor any of its components are considered carcinogenic by OSHA, IARC, NTP, or ACGIH.

## Section 12 - Ecological Information

**Ecotoxicity:** Contains a zinc compound which is classified as very toxic to aquatic life.

**Persistence and degradability:** Not determined.

**Bioaccumulative 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:** 4/8/15

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

C-TEC LSZ4A	C-TEC LSZ4AF
-------------	--------------

**Disclaimer:** Information contained herein is presented in good faith and is based on data believed to be accurate. However no warranty is expressed or implied regarding this information or the results obtained from the use of this Safety Data Sheet, whether it originates with The R. J. Marshall Company or others. This Safety Data Sheet relates only to the specific material designated herein. It does not relate to use with other material or processes. This information is supplied with the condition that the user will make appropriate determination as to its suitability for their purpose prior to using it.