

# Safety Data Sheet

C-TEC LS-20A

MSDS No. 9670.4

Date of Preparation: 7/16/96

Revision: 5/7/13

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** C-TEC LS-20A

**Synonyms:** Charring Agent

**General Use:** Fire retardant

**Manufacturer:** Marshall Additive Technologies

Division of the R. J. Marshall Company

26776 W. 12 Mile Road

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

**Date Revised:** 5/7/13

**Preparer:** Stephanie Nichols

## Section 2 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

**HMIS**

**H** 1

**F** 0

**R** 0

**PPE**† E

†Sec. 8

### Potential Health Effects

**Signal Words:** None

**Hazard Statements:** None

**Primary Entry Routes:** Inhalation, Eye, and Ingestion.

**Acute Effects**

**Inhalation:** Inhalation of high concentrations of this inert nuisance particulate can result in mild irritation of the respiratory tract.

**Eye:** May cause irritation through mechanical abrasion.

**Skin:** May cause irritation through mechanical abrasion.

**Ingestion:** Not applicable.

**Carcinogenicity:** Neither this product nor any of its components are considered carcinogenic by OSHA, IARC, NTP, ACGIH.

**Medical Conditions Aggravated by Long-Term Exposure:** Chronic respiratory disease.

## Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Percent by Weight
Inorganic Filler	-----	Max 99.9
Zinc Compounds	-----	Max 1.0

## Section 4 - First Aid Measures

**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.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

## Section 5 - Fire-Fighting Measures

**Burning Rate:** Not determined.

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

**Unusual Fire or Explosion Hazards:** None known.

**Hazardous Combustion Products:** None known.

**Fire-Fighting Instructions:** n/a

**Fire-Fighting Equipment:** n/a

## Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Collect solids. Recycle if possible.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## Section 7 - Handling and Storage

**Handling Precautions:** Avoid generating dust during handling.

**Storage Requirements:** S8: Keep material dry.

## 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 gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). 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:** S20/21: 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.

**Trace Impurities:**

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Inorganic Filler	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable dust	None established	None established	None established
Zinc Compounds	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable dust	None established	None established	None established

## Section 9 - Physical and Chemical Properties

**Physical State:** white powder

**Appearance and Odor:** white odorless powder

**Odor Threshold:** n/e

**Vapor Pressure:** n/e

**Vapor Density (Air=1):** n/a

**Formula Weight:** n/a

**Density:** n/a

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 3.2

**pH:** n/a

**Flammability:** non-flammable

**UEL/LEL:** non-flammable

**Decomposition temperature:** not determined

**Water Solubility:** Slightly soluble

**Other Solubilities:** n/a

**Boiling Point:** n/a

**Freezing/Melting Point:** n/a

**Viscosity:** n/a

**Refractive Index:** n/a

**Surface Tension:** n/a

**% Volatile:** n/a

**Flash point:** n/a

**Evaporation Rate:** n/a

**Auto-ignition temperature:** not determined

## Section 10 - Stability and Reactivity

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

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** None known.

**Conditions to Avoid:** None known.

**Hazardous Decomposition Products:** n/a

## Section 11- Toxicological Information

### Toxicity Data:\*

**Eye Effects:** Nuisance dust. May cause irritation through mechanical abrasion. Flush with water for at least 15 minutes. Consult physician if irritation is persistent.

**Acute Inhalation Effects:** Nuisance dust. Overexposure to dust may cause irritation to the respiratory tract. Should this occur, remove affected individual to fresh air. If symptoms persist, consult a physician.

**Skin Effects:** Nuisance dust. May cause irritation through mechanical abrasion. Wash skin thoroughly with soap and water.

**Acute Oral Effects:** None known.

**Chronic Effects:** None known.

**Carcinogenicity:** Neither this product nor any of its components are considered carcinogenic by OSHA, IARC, NTP, or ACGIH.

## Section 12 - Ecological Information

No information available.

## 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.

## 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.

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

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

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

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

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

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

Swiss: Components of this product are listed on the Giftlist List of Toxic Substances.

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

## Section 16 - Other Information

**Prepared By:** Stephanie Nichols

**Revision Notes:** 5/7/13

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

C-TEC LS-20A

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