

Safety Data Sheet

Smoke Defense Series

SDS No. 9950.1

Date of Preparation: 11/6/19

Revision: 7/7/20

Section 1 - Chemical Product and Company Identification

Product Identifier: Smoke Defense Series

Other means of identification: SD Series

Recommended Use: Fire retardant.

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

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Date Revised: 7/7/20

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 following local regulations.

Store locked up.

Hazards not otherwise classified: None

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 under 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 chemicals.

Unsuitable Extinguishing Media: None known.

Unusual Fire or Explosion Hazards: None known.

Specific hazards arising from the chemical: None known.

Special protective equipment and precautions for firefighters: Do not release runoff from fire control methods to sewers or waterways. 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 following 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

Control parameters:

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Particulates not otherwise classified	15 mg/m ³ total 5 mg/m ³ respirable	none established	none established	none established
Crystalline Silica	0.05 mg/m ³ respirable dust	none established	.025 mg/m ³ respirable	none established

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 20.2.

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.

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: 3.0-3.5

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 irritate through mechanical abrasion.

Skin Effects: May irritate through mechanical abrasion.

Inhalation: Overexposure to dust may irritate the respiratory tract.

Ingestion: not applicable.

Delayed and immediate effects and 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: Not determined.

Persistence and degradability: Not determined.

Bio-accumulative potential: Not determined.

Mobility in soil: Not determined.

Results of PBT and vPvB: 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: None

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

Prop65: This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer.

OSHA Regulations:

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

TSCA

This substance or all 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 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 product grades

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

SD775	SD808	SD845	SD890	SDZAM
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H: 1 F: 0 R: 0

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