

Safety Data Sheet

Section 1 – Product Identification

Product Name: D-Fense Dust	EPA Registration #: 53883-283
Manufacturer: Control Solutions Inc. 5903 Genoa- Red Bluff Pasadena, TX 77507 281-892-2500	EPA Establishment #: 67572-GA-1

Section 2 – Chemical Composition

Material	CAS #	% by Weight	OSHA PEL/ACGIH TLV
Deltamethrin	52918-63-5	0.05%	None Established
Inert Ingredients	N/A	99.95%	OSHA: 15 mg/m ³ (total dust) 5 mg/m ³ (respirable ≤5µm)
Crystalline Silica	14808-60-7	2.50%	OSHA: 6.7 mg/m ³ (total dust) 2.2 mg/m ³ (respirable ≤5µm)
Calcium Carbonate	1317-65-3	95.40%	OSHA: 15 mg/m ³ (total dust) 5 mg/m ³ (respirable ≤5µm)

Section 3 – Hazard Identification

Symptoms of Toxicity: Deltamethrin may produce neurotoxic effects including staggering gait, muscle tremors and convulsions.

Flammability: N/A

Reactivity: Stable under normal conditions.

Carcinogenicity: This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal. This product or its components may have long term (chronic) health effects.

Section 4 – First Aid

Eye Contact:	Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.
Inhalation:	Move person to fresh air. If person is not breathing, give artificial respiration. Call a poison control center for further treatment advice.
Ingestion:	Call poison control center immediately for treatment advice. Do not induce vomiting unless directed to do so by a poison control center. Do not give anything by mouth to an unconscious person.
Dermal Contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center for treatment advice if irritation persists.
Notes/Physician's Information:	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

Section 5 – Fire and Explosion Hazards

Flash Point:	N/A	Upper Flammability Limit:	N/A
Extinguishing Media:	Foam, dry chemical, CO ₂ , water fog	Lower Flammability Limit:	N/A
Special Firefighting Procedures:	Use SCBA with full-face piece and protective clothing.		
Unusual Fire Hazards:	Possible toxic smoke, vapors, fallout and runoff water can result from fires. Dusts may form explosive mixtures with air when disturbed.		
Reactivity/Stability:	Toxic and irritating gasses may form when burned or heated. Hazardous polymerization will not occur.		

Section 6 – Spill/Release Procedures

Absorbent:	Sweep or vacuum spilled material and dispose of in municipal landfill. Rinse contaminated material with water and absorb with clay granules or universal absorbent pads.
Containment:	Do not discharge waste into municipal wastewater or public storm drains. Eliminate runoff as much as possible.
Waste Disposal:	Dispose of contaminated material in municipal land fill or through licensed TSD. Not a hazardous waste under RCRA, 40 CFR 261.
Reporting:	Report all major spills and uncontrolled releases to proper local, state, and federal agencies.
Emergency Contact #:	Chemtrec: 1-800-424-9300

Section 7 – Storage and Handling Instructions

Storage Conditions:	Do not store near foodstuffs or feed. Store in a cool, dry, well-ventilated area away from flammable materials and sources of heat. Keep away from oxidizing agents and alkaline material.
Special Handling Considerations:	Exercise caution to prevent damage to or leakage from the container. Workers should follow good hygiene practices to avoid cross contamination and accidental ingestion.
Container Disposal:	Do not reuse empty containers. Triple rinse (or equivalent), then offer for recycling or render unusable and dispose of in municipal landfill or with licensed TSDF.

Section 8 – Protective Equipment/Engineering Controls

Eye Protection:	None required. ANSI approved safety goggles or glasses with side shields are recommended.
Respiratory Protection:	None required. Use NIOSH approved air purifying respirator or filtering face piece with N or P class filter.
Dermal Protection:	Gloves, long sleeves, pants and shoes.
Engineering Controls:	Use only in adequately ventilated areas.

Section 9 – Physical Data

Odor:	Weak characteristic	Melting Point:	N/A
Physical State:	Solid powder	Flash Point:	Treat as combustible dust.
Color:	Opaque off-white	Specific Gravity:	See bulk density
Bulk Density:	55.5 lb/ft ³	pH:	N/A
Vapor Pressure:	N/A	Water Solubility:	Slightly soluble
Viscosity:	N/A	Refractive Index:	N/A

Section 10 – Toxicity

EPA Toxicity Category:	“Caution” label required	Oral LD ₅₀ :	>5050 mg/kg
Skin Contact:	Irritant	Dermal LD ₅₀ :	>2020 mg/kg
Eye Contact:	Irritant	Inhalation LC ₅₀ :	>26.1 mg/l (4 hour)
NFPA Classification:	Fire - 0	Health - 1	
	Reactivity - 0	Special - none	
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

Section 11 – Ecological Data

Aquatic:	(96h) for rainbow trout: LC50: 0.00091 mg/l (96h) for Water flea (daphnia magna) EC50: 0.00056 mg/l
Avian:	LD ₅₀ Bobwhite quail- >10,000 mg/kg
Bioaccumulation:	Unlikely to bioaccumulate due to acute toxicity.
Summary:	This product is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of wastes.

Section 12 – Transportation

DOT:	Not regulated.
IATA:	UN 3077, Environmentally hazardous substance, solid, n.o.s. (deltamethrin mixture), Class 9, PG III
IMDG:	UN 3077, Environmentally hazardous substance, solid, n.o.s. (deltamethrin mixture), Class 9, PG III, marine pollutant

Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Contains no components listed under section 302.
Section 304/EHS RQ: (release notification)	Contains no components listed under section 304.
CERCLA RQ: (release notification)	Not regulated by CERCLA.
Section 311/Tier II: (MSDS submission)	Acute health hazard.
Section 313/TRI Chemicals:	Contains no components listed under section 304.
RCRA Haz-Waste Code(s):	None
CAA TQ: (air emissions)	None

Section 14 – Other

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

The information provided on this Material Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Control Solutions, Inc. The data on this sheet relates only to the specific material designated herein. Control Solutions, Inc. assumes no legal responsibility for the accuracy or completeness of this data, nor for use or reliance upon this data.