THE ECOLOGY WORKS®

Rev Date: June 10, 2023

Safety Data Sheet

Dustmite and Flea Control

Section 1: Product and Company Identification

1.1 Product Name Dustmite & Flea Control

1.2 SDS No. DMFC010123

1.3 Manufacturer/Distributor The Ecology Works, Inc.
3755 Fiscal Ct. Suite B
West Palm Beach FL 33404

HMIS Rating

H	0	
F	0	
R	0	
PE	--	

GHS Rating

(No. 1.4)
Division 1.4

1.4 Phone Numbers (561) 880-6769
1.5 Medical Emergency (800) 222-1222

Section 2: Hazards Identification

2.1 OVERVIEW: DUSTMITE AND FLEA CONTROL is a white, odorless, powdered substance that is not flammable, combustible or explosive, and it presents no unusual hazard if involved in fire. DUSTMITE AND FLEA CONTROL presents little or no hazard to humans and has low acute oral and dermal toxicity.
2.2 POTENTIAL ECOLOGICAL EFFECTS: Large amounts of DUSTMITE AND FLEA CONTROL can be harmful to boron sensitive plants and other ecological systems.
2.3 POTENTIAL HEALTH EFFECTS-ROUTES OF EXPOSURE: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not a concern because DUSTMITE AND FLEA CONTROL is not absorbed through intact skin.
2.4 INHALATION: Occasional mild irritation effects to nose and throat may occur from inhalation of DUSTMITE AND FLEA CONTROL dusts at levels greater than 10mg/m
2.5 INGESTION: Products containing DUSTMITE AND FLEA CONTROL are not intended for ingestion. DUSTMITE AND FLEA CONTROL has relatively low acute toxicity. Small amounts (e.g. one teaspoon) swallowed accidentally are not likely to cause effects, swallowing amounts larger than that may cause gastrointestinal symptoms.
2.6 EYE CONTACT: DUSTMITE AND FLEA CONTROL is non-irritating to eyes in normal industrial use.
2.7 SKIN CONTACT: DUSTMITE AND FLEA CONTROL does not cause irritation to intact skin.
2.8 TARGET ORGANS: No target organ has been identified in humans. High dose animal ingestion studies indicate the testes are the target organs in male animals, though human studies have not shown such results.SIGNS and SYMPTOMS of EXPOSURE: Symptoms of accidental over exposure to DUSTMITE AND FLEA CONTROL have been associated with ingestion or by absorption through large areas of damaged skin. These include nausea, vomiting, and diarrhea with delayed effects of skin redness and peeling.

Section 3: Composition/ Information on Ingredients

Grades	Commercial, Technical, Low Sulfate
Chemical Formula:	$Na_2B_8O_{13} \cdot 4H_20$
Chemical Name/synonyms:	Disodium Octaborate Tetrahydrate
Chemical Family:	Inorganic Borates
CAS Registry Number:	12008-03-4

TSCA Inventory Number:	12008-41-2

Section 4: First Aid Measures

4.1 INHALATION: No specific treatment is necessary since DUSTMITE AND FLEA CONTROL is not likely to be hazardous by inhalation. Prolonged exposure to dust levels in excess of regulatory limits should always be avoided.
4.2 EYE CONTACT: Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.
4.3 SKIN CONTACT: Wash with soap and water.
4.4 INGESTION: Swallowing less than one teaspoon will cause no harm to healthy adults. If larger amounts are swallowed give two glasses of water to drink and seek medical attention.
4.5 NOTE TO PHYSICANS: Observation only if required for adult ingestion of less than 6 grams of DUSTMITE AND FLEA CONTROL. For ingestion in excess of 6 grams , maintain adequate kidney functions and force fluids. Gastric lavage is recommended for symptomatic patience only. Hemodialisis should be reserved for massive acute ingestion or a patient with renal failure. DUSTMITE AND FLEA CONTROL analysis of urine and blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment. (for further information: Litovitz T. L.,Norman, S.A., Veltri, J.C., Annual Report of American Association of Poison Control Centers Data Collection System, Am J. Emerg. Med 1986; 4:427-458)

Section 5: Fire Fighting Measures

5.1 GENERAL HAZARD: NONE: because DUSTMITE AND FLEA CONTROL is not flammable, combustible or explosive, The product itself is a flame retardant.
5.2 EXTINGUISHING MEDIA: Any fire extinguishing media may be used on nearby fires.
5.3 FLAMMABILITY CLASSIFICATION (29 CFR 1910.1200) Non-flammable soild.

Section 6: Accidental Release Measures

6.1 GENERAL: DUSTMITE AND FLEA CONTROL is water soluble, white powder that may cause damage to trees or vegetation by root absorption.
6.2 LAND SPILL: Vacuum, shovel or sweep up DUSTMITE AND FLEA CONTROL and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. No personal protective equipment is needed to clean up land spills.

Section 7: Handling and Storage

7.1 STORAGE TEMPERATURE: Room Temperature (72o F)
7.2 STORAGE PRESSURE: Atmospheric
7.3 STORAGE CONDITIONS: Dry, indoor storage.
7.4 SHELF LIFE: DUSTMITE AND FLEA CONTROL is an organic naturally occurring borate, it will not react or decompose and will last indefinitely under ideal conditions. But since high moisture and temperature conditions can cause caking, it is advised that the product be used within one year.

Section 8: Exposure Control/ Personal Protection

8.1 ENGINEERING CONTROLS: Use local exhaust ventilation to keep airborne concentration of DUSTMITE AND FLEA CONTROL dust below permissible exposure levels.
8.2 PERSONAL PROTECTION: Where airborne concentrations are expected to exceed exposure limits, NIOSH/MSHA certified respirators must be used. Eye goggles and gloves are not required for normal industrial exposures, but may be warranted if environment is excessively dusty.
8.3 OCCUPATION EXPOSURE LIMITS: DUSTMITE AND FLEA CONTROL is listed by OSHA , Cal OSHA and ACGIH as “particulate not otherwise classified” or “Nuisance Dust OSHA:PEL - 15mg/m3 total dust and 5mg/m3 inhalable dust ACGIH TIV - 10mg/m3 Cal OSHA: PEL - 10mg/m3 *PEL= “Permissible Exposure Limit” *TIV=”Threshold Limit Value”

Section 9: Physical and Chemical Properties

9.1 APPEARANCE: White, odorless, crystalline solid
9.2 SPECIFIC GRAVITY: 1.9
9.3 SOLUBILITY IN WATER: 9.7% (20 C)
9.4 AVERAGE BULK DENSITY: 25-35 Pounds per cubic foot pH: 8.0 (5% solutions) 7.6 (10% solution)

Section 10: Stability and Reactivity

10.1 CONDITIONS TO AVOID: Contact with strong acids
10.2 MATERIALS TO AVOID: Strong acids
10.3 HAZARDOUS DECOMPOSITION PRODUCTS: None
10.4 VAPOR PRESSURE: No hazardous polymerization will occur.

Section 11: Toxicological Information

11.1 INGESTION (Acute Oral Toxicity): Low acute oral toxicity LD 50 in rats is 2550 mg/kg of body weight.
11.2 SKIN (Acute Oral Toxicity): Low acute dermal toxicity; LD 50 in rabbits is greater than 2000 mg/kg of body weight DUSTMITE AND FLEA CONTROL is not absorbed through intact skin.
11.3 PRIMARY SKIN IRRITATION INDEX: 0 (zero) DUSTMITE AND FLEA CONTROL is non-corrosive.
11.4 EYE: Draize test in rabbits produced mild eye irritation effects.

Section 12: Ecological Information

12.1 PHYTOTOXICITY: Although boron is an essential micronutrient for healthy growth of plants, it can be harmful to boron-sensitive plants in higher quantities. Care should be taken to minimize the amount of DUSTMITE AND FLEA CONTROL released to the environment.
12.2 PERSISTENCE/DEGRADATION: Boron is naturally occurring and ubiquitous in the environment.
12.3 SOIL MOBILITY: DUSTMITE AND FLEA CONTROL is soluble in water and is leachable through normal soil.

Section 13: Disposal

13.1 DISPOSAL GUIDANCE: Small quantities of DUSTMITE AND FLEA CONTROL can usually be disposed of at a Municipal Landfill sites. No special disposal treatment is required, but refer to state and local regulations for applicable site-specific requirement. Tonnage quantities of product are not recommended to be sent to landfills. Such product should be re-used for an appropriate application.RCRA (40CFR 261): DUSTMITE AND FLEA CONTROL is not listed under any sections of the Federal Resource Conservation and Recovery Act. (RCRA).

Section 14: Transport Information

14.1 DOT HAZARDOUS MATERIAL CLASSIFICATION: DUSTMITE AND FLEA CONTROL is not a U.S. Department of Transportation (DOT) Hazardous Material.
14.2 DOT HAZARDOUS SUBSTANCES CLASSIFICATION: DUSTMITE AND FLEA CONTROL is not a DOT Hazardous substance.
14.3 INTERNATIONAL TRASPORTATION: DUSTMITE AND FLEA CONTROL has no U.N. Number and is not regulated under any international rail, highway, water or air transport regulations.

Section 15: Regulatory Information

15.1 RCRA: DUSTMITE AND FLEA CONTROL is not listed as hazardous waste under any sections of the Resource Conservation and Recovery Act Regulations (40 CFR 261 et. seq)

15.2 SUPERFUND: CERCLA/SARA DUSTMITE AND FLEA CONTROL is not listed under CERCLA or its 1986 amendments.**Potable Water: 15.3 DUSTMITE AND FLEA CONTROL** is not regulated under SDWA, 42 USC 300g-1, 40 CFR 14q et seq. Consult state and local regulations for possible water quality **IARC:** The international agency of Research on Cancer (of the World Health Organization) does not list or categorize **DUSTMITE AND FLEA CONTROL****CALIFORNIA PROPOSITION 65: DUSTMITE AND FLEA CONTROL** is not listed on any Proposition 65 list of carcinogens or reproductive toxicants.

Section 16: Other Information

The information is furnished without warranty, expressed, or implied, except that it is accurate to the best knowledge of The Ecology Works. The Data on this sheet related only to the specific material designed herein. The Ecology Works assumes no legal responsibility for the use or reliance on this data.

End of SDS