

MATERIAL SAFETY DATA SHEET (MSDS)

THE ECOLOGY WORKS® DUSTMITEX Dust Mite & Flea Control

SECTION I- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DUSTMITEX DUSTMITE & FLEA CONTROL

MANUFACTURER:
THE ECOLOGY WORKS, INC
P.O. Box 9933
W. Palm Beach FL 33419

GRADES: Commercial, Technical, Low Sulfate

CHEMICAL FORMULA: $\text{Na}_2\text{B}_8\text{O}_{13} \cdot 4\text{H}_2\text{O}$

CHEMICAL NAME/SYNONYMS: Disodium Octaborate Tetrahydrate

CHEMICAL FAMILY: Inorganic Borates

EMERGENCY PHONE NUMBER:

CAS REGISTRY NUMBER: 12280-03-4

1-800-222-1222

TSCA Inventory Number: 12008-41-2

Date: June 1, 2010

EPA REGISTRY NUMBER: 67419-4

NFPA CLASSIFICATION:

Health 0

Flammability 0

Reactivity 0

HMS CLASSIFICATION:

Red (Flammability) 0

Yellow (Reactivity) 0

Blue (Acute Health) 0

SECTION II - HAZARD IDENTIFICATION

OVERVIEW: DUSTMITEX DUSTMITE & FLEA CONTROL is a clear, odorless, liquid that is not flammable, combustible, or explosive, and it presents no unusual hazard if involved in fire. DUSTMITEX DUSTMITE & FLEA CONTROL presents little or no hazard (to humans) and has low acute oral and dermal toxicity.

POTENTIAL ECOLOGICAL EFFECTS: Large amounts of DUSTMITEX DUSTMITE & FLEA CONTROL can be harmful to boron sensitive plants and other ecological systems.

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 DUSTMITEX DUSTMITE & FLEA CONTROL is not absorbed through intact skin.

INHALATION: Occasional mild irritation effects to nose and throat may occur from inhalation of DUSTMITEX DUSTMITE & FLEA CONTROL.

INGESTION: Products containing DUSTMITEX DUSTMITE & FLEA CONTROL are not intended for ingestion. DUSTMITEX DUSTMITE & FLEA CONTROL has a relatively low acute toxicity. Small amounts (e.g. 2 oz) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

EYE CONTACT: DUSTMITEX DUSTMITE & FLEA CONTROL is non-irritating to eyes in normal industrial use.

SKIN CONTACT: DUSTMITEX DUSTMITE & FLEA CONTROL does not cause irritation to intact skin.

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 shown no such results.

SIGNS and SYMPTOMS of EXPOSURE: Symptoms of accidental over exposure to DUSTMITEX DUSTMITE & 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 III - FIRST AID MEASURES:

INHALATION: No specific treatment is necessary since DUSTMITEX DUSTMITE & FLEA CONTROL is not likely to be hazardous by inhalation.

EYE CONTACT: Non-irritating to eyes in normal use.

SKIN CONTACT: Wash with soap and water.

INGESTION: Swallowing less than 2 oz will cause no harm to healthy adults. If larger amounts are swallowed give two glasses of water to drink and seek medical attention.

NOTE TO PHYSICIANS: Observation only if required for adult ingestion of less than 2 oz of DUSTMITEX DUSTMITE & FLEA CONTROL. For ingestion in excess of 2 oz, maintain adequate kidney functions and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. DUSTMITEX DUSTMITE & 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 the American Association of Poison Control Centers data Collection System. Am. J. Emerg. Med 1986; 4:427-458).

SECTION IV - FIRE FIGHTING MEASURES

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

SECTION V - ACCIDENTAL RELEASE MEASURES

GENERAL: DUSTMITEX DUSTMITE & FLEA CONTROL may cause damage to trees or vegetation by root absorption. LAND SPILL: Vacuum or mop up DUSTMITEX DUSTMITE & 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 VI - HANDLING AND STORAGE

STORAGE TEMPERATURE: Room Temperature (72 F) STORAGE PRESSURE: Atmospheric STORAGE CONDITIONS: Dry, indoor storage. SHELF LIFE: DUSTMITEX DUSTMITE & FLEA CONTROL is an inorganic naturally occurring borate solution, it will not react or decompose and will last indefinitely under ideal conditions. Some settling may occur at low temperatures, it is advised that the product be used within one year.

SECTION VII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use as prescribed on the label will not create an airborne concentration to require any personal protection equipment. For prolonged or daily use, a dust mask and eye goggles are recommended. It is not anticipated that airborne concentrations will exceed exposure limits as prescribed by the label directions.

SECTION IX - TOXICOLOGICAL INFORMATION

INGESTION (ACUTE ORAL TOXICITY): Low acute oral toxicity. Greater than 5,000 mg/kg in female rats
SKIN (ACUTE DERMAL TOXICITY): Low acute dermal toxicity; LD₅₀ in rabbits is greater than 2000 mg/kg of body weight. DUSTMITEX DUSTMITE & FLEA CONTROL is not absorbed through intact skin.
PRIMARY SKIN IRRITATION INDEX: 0 (zero) DUSTMITEX DUSTMITE & FLEA CONTROL is non-corrosive.
EYE: Draize test in rabbits produced mild eye irritation effects.

SECTION X - ECOLOGICAL INFORMATION

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 DUSTMITEX DUSTMITE & FLEA CONTROL released to the environment.
PERSISTENCE/DEGRADATION: Boron is naturally occurring and ubiquitous in the environment.
SOIL MOBILITY: DUSTMITEX DUSTMITE & FLEA CONTROL is leachable through normal soil.

SECTION XI - DISPOSAL

DISPOSAL GUIDANCE: Small quantities of DUSTMITEX DUSTMITE & FLEA CONTROL can usually be disposed of at 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 (40 CFR 261): DUSTMITEX DUSTMITE & FLEA CONTROL is not listed under any sections of the Federal Resource Conservation and Recovery Act (RCRA).

SECTION XII - TRANSPORT INFORMATION

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

SECTION XIII - REGULATORY INFORMATION

RCRA: DUSTMITEX DUSTMITE & FLEA CONTROL is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act or regulations (40 CFR 261 et seq.)
SUPERFUND: CERCLA/SARA. DUSTMITEX DUSTMITE & FLEA CONTROL is not listed under CERCLA or its 1986 amendments.
SAFE DRINKING WATER ACT: DUSTMITEX DUSTMITE & FLEA CONTROL is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 et seq. Consult state and local regulations for possible water quality advisories regarding boron.
IARC: The International Agency for Research on Cancer (of the World Health Organization) does not list or categorize DUSTMITEX DUSTMITE & FLEA CONTROL
CALIFORNIA PROPOSITION 65: DUSTMITEX DUSTMITE & FLEA CONTROL is not listed on any Proposition 65 lists of carcinogens or reproductive toxicants.