

Material Safety Data Sheet

Home Solutions Allergen Relief with Odor Neutralizer

Safety Data Sheet
OECD Format

HAZARD RATING

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

Anti-Allergen Solution Rating

Fire – 0
Toxicity – 0
Reactivity – 0
Special – 0
Health – 1
Safety – 0

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Revision Date:

02/14/05

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Home Solutions Allergen Relief with Odor Neutralizer

Supplier: Aerus LLC
Dallas, Texas
Product Information (800) 243-9078 USA (800) 668-0763 Canada
aerusonline.com

Emergency Telephone Number: (800) 222-1222 available 24 hrs.

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name of the Substance:</u>	<u>Component</u>	<u>Concentration Range</u>	<u>CAS Number</u>
Aqueous Oxidant	Water	> 92%	7732-18-5
This is a water-based system with boiling points and freezing points near those of water.	Alcohols 12-14	< 4%	68439-50-9
	Stabilized chlorine dioxide	<8000 PPM	10049-04-4
	Sodium bicarbonate	<1000 PPM	144-55-8
	Sodium monooleate	<1000 PPM	9005-65-5
	Dichloroacetic acid	<1000 PPM	79-43-6

The liquid has a very mild fresh odor.

Recommended Use: Allergen Reduction & Odor Control

* Contains items withheld in accordance with OSHA 29 CFR XVII-1910.1200 Section (i) "Trade Secrets". Contains no hazardous components as listed in 29 CFR 1900.1200 or other pertinent OSHA Regulations.

3. HAZARDS IDENTIFICATION

Most Important Hazards: None

Specific Hazards: In rare cases a minor ocular irritation may occur.

4. FIRST AID MEASURES

General Advice: Product exhibits no adverse effects.

Inhalation: Non-reactive – No medical treatment needed – breathe fresh air.

Skin Contact: Non-irritating – No First Aid needed.

Eye Contact: Rinse thoroughly with plenty of water.

Ingestion: Non-toxic, drink several glasses of water– No First Aid needed.

5. FIRE-FIGHTING MEASURES:

Suitable Extinguishing Media: The product itself does not burn.

Specific Hazards: None

Specific Methods: None

6. ACCIDENTAL RELEASE MEASURES:

Engineering Measures: General room ventilation is satisfactory. A spill provides no environmental concerns.

Control Parameters: None needed. Dry up to prevent Slip or Fall Hazard.

Personal Protection Equipment

Respiratory: None needed.

Eye: None needed.

Hand: None needed.

Hygiene Measures: No special requirements needed.

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7. HANDLING AND STORAGE

Technical Measures/Precautions:	Normal ventilation is adequate.
Safe Handling Advice:	KEEP OUT OF THE REACH OF CHILDREN.
Technical Measures/Storage Conditions:	Keep away from excessive heat and strong acids.
Incompatible Products:	Avoid combining with STRONG ACIDS.
Packaging Material:	No restrictions.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures:	General room ventilation is satisfactory.
Control Parameters:	None needed.
Personal Protection Equipment Respiratory: Eye: Hand: Hygiene Measures:	None needed. None needed. None needed. No special requirements needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: water transparent liquid Odor: pleasant fresh scent Boiling Point/Range: 100°C (212.9°F) Freezing Point: (32°F) Explosive Properties: None Vapor Pressure: Does not apply	pH: 8.8 Flash Point: None to IBP 100°C (212.9°F) % Volatile by Volume: Nil Water Solubility: Completely water soluble Specific Gravity: 1.05 Volatile Organic Compounds: None
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10. STABILITY AND REACTIVITY

Conditions to Avoid:	Contact with strong acids.
Materials to Avoid:	Strong acids
Hazardous Decomposition Products: Hazardous Polymerization:	None No Hazardous Polymerization will occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Ingredients contained in the product are non-toxic at the dilution used in this formulation.
Local Effects:	None
Specific Effects:	None.

12. ECOLOGICAL INFORMATION

Non-toxic, non-hazardous, safe for the environment. This product has been determined to be readily biodegradable according to OECD Method, Modified Sturm Test.

13. DISPOSAL CONSIDERATIONS

Home Solutions Allergen Relief with Odor Neutralizer poses no hazard to air, water aquatic life, or humans.

Waste from Residues/Unused Products: May be disposed of in neat form. There are no components in this formulation listed as hazardous subject to 40 CFR 372.

14. TRANSPORT INFORMATION

Not classified as hazardous by DOT per Title 49. Not regulated under international regulations. No U.N. number.

15. REGULATORY INFORMATION

Contains No hazardous components under current OSHA definitions including 29 CFR 1900.1200. No SARA Section 313 Chemicals. WHMIS Class: Not Controlled. Product is Not listed under California Prop 65. Product meets CARB, and all known regulatory considerations. All chemicals used in the manufacture are listed in TSCA Inventory.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered a warranty or quality specification. Not valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Product Information Number: (800) 243-9078 USA (800) 668-0763 Canada aerusonline.com

MATERIAL SAFETY DATA SHEET (MSDS)

AERUS LLC HOME SOLUTIONS DUSTMITE AND FLEA CONTROL

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: NAME: HOME SOLUTIONS HOME SOLUTIONS DUST MITE AND FLEA CONTROL
MANUFACTURER: Aerus LLC, 5956 Sherry Lane, Suite 1500, Dallas, TX 75225
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 Borate

EMERGENCY PHONE NUMBER:

AERUS: 1-800-243-9078 (Monday – Friday 9AM to 8PM Eastern)
National Poison Control Center: 1-800-222-1222 (24 hours)

CAS REGISTRY NUMBER: 12280-03-4
TSCA Inventory Number: 12008-41-2
EPA REGISTRY NUMBER: 67419-1-81911

NFPA CLASSIFICATION:

Health 0
Flammability 0
Reactivity 0

HMIS CLASSIFICATION:

Red (Flammability) 0
Yellow (Reactivity) 0
Blue (Acute Health) 1*
* Chronic Effects

SECTION II - HAZARD IDENTIFICATION

OVERVIEW: HOME SOLUTIONS 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. HOME SOLUTIONS DUSTMITE AND FLEA CONTROL presents little or no hazard (to humans) and has low acute oral and dermal toxicity.

POTENTIAL ECOLOGICAL EFFECTS: Large amounts of HOME SOLUTIONS DUSTMITE AND 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 HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is not absorbed through intact skin.

INHALATION: Occasional mild irritation effects to nose and throat may occur from inhalation of HOME SOLUTIONS DUSTMITE AND FLEA CONTROL dusts at levels greater than 10mg/m.

INGESTION: Products containing HOME SOLUTIONS DUSTMITE AND FLEA CONTROL are not intended for ingestion. HOME SOLUTIONS DUSTMITE AND FLEA CONTROL has a 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.

EYE CONTACT: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is non-irritating to eyes in normal industrial use.

SKIN CONTACT: HOME SOLUTIONS DUSTMITE AND 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 HOME SOLUTIONS 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 III - FIRST AID MEASURES:

INHALATION: No specific treatment is necessary since HOME SOLUTIONS 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.

EYE CONTACT: Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

SKIN CONTACT: Wash with soap and water.

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.

NOTE TO PHYSICIANS: Observation only if required for adult ingestion of less than 6 grams of HOME SOLUTIONS DUSTMITE AND FLEA CONTROL. For ingestion in excess of 6 grams, 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. HOME SOLUTIONS 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 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 HOME SOLUTIONS DUSTMITE AND 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 solid.

SECTION V - ACCIDENTAL RELEASE MEASURES

GENERAL: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is a water soluble, white powder that may cause damage to trees or vegetation by root absorption.

LAND SPILL: Vacuum, shovel or sweep up HOME SOLUTIONS 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 VI - HANDLING AND STORAGE

STORAGE TEMPERATURE: Room Temperature (72 F)

STORAGE PRESSURE: Atmospheric

STORAGE CONDITIONS: Dry, indoor storage.

SHELF LIFE: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is an inorganic 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 VII - EXPOSURE CONTROLS\PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust ventilation to keep airborne concentrations of HOME SOLUTIONS DUSTMITE AND FLEA CONTROL dust below permissible exposure levels.

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.

OCCUPATIONAL EXPOSURE LIMITS: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is listed by OSHA, Cal OSHA and ACGIH as "Particulate Not Otherwise Classified" or "Nuisance Dust."

OSHA:PEL* - 15 mg/m³ total dust and 5mg/m³ respirable dust

ACGIH: TIV * - 10mg/m³

Cal OSHA: PEL* - 10mg/m³ *PEL="Permissible Exposure Limit" *TIV= "Threshold Limit Value"

SECTION VIII - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White, odorless, crystalline solid

SPECIFIC GRAVITY: 1.9

SOLUBILITY IN WATER: 9.7% (20 C)

AVERAGE BULK DENSITY 25-35 pounds per cubic foot

pH: 8.0 (5% solution) 7.6 (10% solution)

SECTION IX - TOXICOLOGICAL INFORMATION

INGESTION (ACUTE ORAL TOXICITY): Low acute oral toxicity;

LD₅₀ in rats is 2550 mg/kg of body weight.

SKIN (ACUTE DERMAL TOXICITY): Low acute dermal toxicity; LD₅₀ in rabbits is greater than

2000 mg/kg of body weight. HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is not absorbed through intact skin.

PRIMARY SKIN IRRITATION INDEX: 0 (zero) HOME SOLUTIONS DUSTMITE AND 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 HOME SOLUTIONS DUSTMITE AND FLEA CONTROL released to the environment.

PERSISTENCE/DEGRADATION: Boron is naturally occurring and ubiquitous in the environment.

SOIL MOBILITY: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is soluble in water and is leachable through normal soil.

SECTION XI - DISPOSAL

DISPOSAL GUIDANCE: Small quantities of HOME SOLUTIONS DUSTMITE AND 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): HOME SOLUTIONS DUSTMITE AND 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: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is not a U.S. Department of Transportation (DOT) Hazardous Material.

DOT HAZARDOUS SUBSTANCES CLASSIFICATION: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is not a DOT Hazardous substance.

INTERNATIONAL TRANSPORTATION: HOME SOLUTIONS DUSTMITE AND 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: HOME SOLUTIONS DUSTMITE AND 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. HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is not listed under CERCLA or its 1986 amendments.

SAFE DRINKING WATER ACT: HOME SOLUTIONS DUSTMITE AND 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 lists or categorize HOME SOLUTIONS DUSTMITE AND FLEA CONTROL

CALIFORNIA PROPOSITION 65: HOME SOLUTIONS DUSTMITE AND FLEA CONTROL is not listed on any Proposition 65 lists of carcinogens or reproductive toxicants.

October 20, 2004