

MATERIAL SAFETY DATA SHEET

Bird-X, Inc.

Product Name: Shake-Away®

SECTION I - PRODUCT IDENTIFICATION and COMPANY INFORMATION

Product Name:	Shake-Away®	Original Form Date:	4/2/04
Synonyms:	Repellent Granules	Last Revision Date:	NA
CAS Number:	None	Previous Revision Date:	NA
Formula:	Mixture		
Chemical Name:	Not Applicable		
Description:	Product produced from the application of garlic oil and a natural source of urea to calcium carbonate.		
Distributor Information:	Contact: Bird-X, Inc.		
Bird-X, Inc.	Telephone: (800) 662-5021		
300 N. Elizabeth St.	Email: sales@bird-x.com		
Chicago, IL 60607	Emergency: (800) 424-9300 (Chemtrec)		

SECTION II - COMPOSITION/HAZARDOUS INGREDIENTS

Ingredient Name	CAS No.	OSHA PEL	ACGIH TWA	OTHER
Garlic Oil	NA	None Established	None Established	N/A
Urea	57-13-6	None Established	None Established	N/A
Water	N/A	N/A	N/A	N/A
Calcium Carbonate*	471-34-1	TWA = 15mg/m ³	TWA = 10 mg/m ³	N/A

* Exposure limits are based upon non-asbestos/non-silica total nuisance dust standard.

Component Related Regulatory Information

This product does not contain hazardous materials.

SECTION III - PHYSICAL DATA

Boiling Point: Not Applicable	% Volatile by Volume: Not Applicable
Specific Gravity: 2.83 (H ₂ O = 1.0)	Evaporation Rate: Not Applicable (Butyl Acetate = 1.0)
Vapor Density: Not Applicable	Solubility in Water (% by wt.): Insoluble
Vapor Pressure: Not Applicable	pH: Not Applicable
Appearance & Odor: White to gray-white granules with ammonia/garlic odor.	

SECTION IV - FIRE & EXPLOSION DATA

Flash Point: Not Applicable	Explosive Limit in Air (%)**: N/A
Autoignition Temp: Not Applicable	
NFPA Codes	Fire Fighting Materials:
Health 0	Calcium Carbonate does not support combustion.
Reactivity 0	Use ABC Extinguisher to suppress any
Contact 1 - slight	combustion of applied organics.
Flammability 0	Unusual Fire & Explosion Hazard: None

SECTION V - HEALTH EFFECTS DATA

MATERIAL SAFETY DATA SHEET

Bird-X, Inc.

Product Name: Shake-Away®

Routes of Entry: Inhalation and dermal (skin contact) are the primary routes of exposure.

Signs & Symptoms of Acute Exposure: The primary health hazard listed for this type of product is adverse skin reaction can occur from extended contact to granules.

Inhalation: Inhalation may cause coughing and sneezing. Nasal passages can become irritated by repeated exposures.

Eye Contact: Calcium carbonate granules can cause irritation or mechanical damage to the eye surface.

Skin Contact: Extended skin contact to garlic oil can result in contact dermatitis or allergic skin sensitivity. Allergic reactions to skin sensitivity can result in anaphylactic reaction.

Ingestion: Is not considered a route of entry under normal conditions of use.

Chronic Overexposure: Excessive ingestion of calcium carbonate can result in alkalosis and hypercalcemia.

Chemical Listed as a Carcinogen or Potential Carcinogen:

The Shake- Away product does Not contain any NTP, IARC or OSHA listed carcinogens.

Toxicological Information: specific toxicological data for the materials used in the product are listed:

Acute Toxicity	
Urea:	Rabbit: Oral LD50: 5000 mg/kg, Subcutaneous LD50: 3000-9000 mg/kg Cattle: Oral MDL50:600-1080 mg/kg Guinea Pig: Intravenous LD50: 4800 mg/kg Rat: Oral LD50: 5000mg/kg
Garlic Oil:	Rat: LD50: Oral 30ml/kg Rat: Oral 500mg/kg - liver & lung damage Rat: Oral 100 ml/kg - liver changes
Calcium Carbonate:	Not toxic.
Chronic Toxicity	
Urea:	Data is mixed showing contradictory evidence as an experimental carcinogen in animal studies.. Some animal study (mice) evidence that it is mutagenic at near lethal levels.
Garlic Oil:	Hematologic effects observed in dog studies. Avoid ingestion by dogs. Potential for asthma with prolonged inhalation of garlic dust or oil mist.
Calcium Carbonate:	Not toxic.

SECTION VI - REACTIVITY DATA

Conditions Contributing to Instability: Stable under normal use conditions.

Incompatibility: Avoid contact with open flame and oxidizing agents..

Hazardous Decomposition Products: Thermal decomposition of urea and garlic oil produces irritating fumes & toxic gases, including Carbon Monoxide, and oxides of Nitrogen and Sulfur.

Conditions Contributing to Polymerization: Not Applicable.

SECTION VII - PRECAUTIONS & SAFE HANDLING

Eye Contact:	Avoid
Skin Contact:	Avoid prolonged contact with the skin.
Inhalation:	Avoid
Oxidizing Agents:	Avoid Contact
Open Flame:	Avoid
Shipping Description:	Not a USDOT Hazardous Material or Canada Dangerous Good
Storage & Handling:	Store away from open flame or other combustible materials.
Safety Equipment:	Eyes: Use goggles or safety glasses when spreading the material to avoid granules from entering the eyes.

MATERIAL SAFETY DATA SHEET

Bird-X, Inc.

Product Name: Shake-Away®

Skin: Wear appropriate work gloves to protect skin from extended contact.

Inhalation: Depending upon material condition, wear NIOSH/MSHA approved respirator to prevent inhalation when spreading the material.

SECTION VIII - EMERGENCY & FIRST AID PROCEDURES

Eye: Flush with water to remove granule particles. If irritation persists, get medical attention.

Skin: If a rash or persistent irritation or dermatitis occurs, get medical attention.

Inhalation: Remove to fresh air. If irritation is persistent, severe coughing or breathing difficulties occur, get medical attention.

Ingestion: Not a hazard under normal use of the product.

SECTION IX - SPILL/LEAK CLEAN-UP PROCEDURES

Transportation: The Shake-Away product is not a Hazardous Material as defined by USDOT.

Waste Disposal: The Shake-Away product neither a hazardous waste under the Resource Conservation & Recovery Act (RCRA) nor a listed Hazardous Material under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Dispose of the waste material in an approved landfill in accordance with local, state and federal regulations.

Spill Actions: Clean up the material using normal equipment. The Shake-Away product is NOT a reportable substance under the USEPA and USDOT rules.

SECTION X - OTHER INFORMATION

Notice: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. However, no warranty, expressed or implied is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State and local laws. This information is furnished for the purpose of compliance with the Occupational Safety & Health Act of 1970, and shall not be used for any other purpose.

END OF DOCUMENT