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# MATERIAL SAFETY DATA SHEET

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The Liquid Fence Company, Inc.  
P.O. Box 300  
Brodheadsville, PA 18322

Product Name: Deer & Rabbit Repellent Granular  
Phone: 800-923-3623  
Fax: 570-722-8452  
Date of Preparation: 06/02/2010

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**MSDS Date:** 06/02/2010  
**Product Name:** Liquid Fence Deer & Rabbit Repellent Granular

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## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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**CAS #:** Granular Mixture  
**Product Use:** Deer & Rabbit Repellent product

**Manufacturer:** The Liquid Fence Company, Inc.  
P.O. Box 300  
Brodheadsville, PA 18322  
800-923-3623

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## SECTION 2 - HAZARDS IDENTIFICATION

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### ROUTES OF EXPOSURE

**Potential short term health effects:** Eye, Skin contact, Inhalation, Ingestion.

**Eyes:** May cause irritation.

**Skin:** May cause irritation.

**Inhalation:** May cause respiratory tract irritation.

**Ingestion:** May cause stomach distress, nausea or vomiting.

**Target organs:** Eyes, Skin, & Respiratory system.

**Chronic effects:** Chronic inhalation of crystalline silica dust in excess of the Threshold Limit Value (TLV) recommended by the American Conference of Government Hygienists (ACGIH) (0.025mg/cubic meter) or in excess of the Permissible Exposure Limit (PEL) established by OSHA (0.050mg/cubic meter), over a prolonged number of years may contribute to silicosis. Crystalline silica, when inhaled as respirable dust, has been classified in a 1997 monograph (Volume 68 "Silica") of the International Agency for Research on Cancer (ARC) as carcinogenic to humans over prolonged and sustainable exposure.

**Signs and symptoms:** Symptoms may include Dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided.

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## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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**Composition comments:** This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Contains the following ingredients which comply with the FIFRA 25(b) minimum risk active ingredients or List 4A inert ingredients:**

Calcined Diatomaceous Earth containing less than 1% crystalline silica (CAS# 61790-53-2)

COMPONENT	CAS#
PUTRESCENT EGG SOLIDS	9006-50-2
GARLIC POWDER	8000-78-0
SODIUM LAURYL SULFATE	151-21-3
XANTHAN GUM	11138-66-2
POTASSIUM SORBATE	590-00-1
WATER	7732-18-5
DIATOMACEOUS EARTH/ SILICA	61790-53-2

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## SECTION 4 - FIRST AID MEASURES

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### FIRST AID PROCEDURES

**Eye contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

**Skin contact:** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation:** If symptoms develop move victim to fresh air. Blow nose to evacuate dust, If symptoms persist, obtain medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

**Notes to physician:** Symptoms may be delayed.

**General advice:** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep out of reach of children.

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## SECTION 5 - FIRE FIGHTING MEASURES

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**Flammable properties:** Not flammable by OSHA criteria.

### SUITABLE EXTINGUISHING MEDIA

**Extinguishing media:** Treat for surrounding material.

**Unsuitable extinguishing media:** Not available

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### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

**Protection of firefighters:** Not available  
**Protective equipment for firefighters:** Firefighters should wear full protective clothing including self contained breathing apparatus.  
**Hazardous combustion products:** None known.

### SENSITIVITY TO MECHANICAL IMPACT

**Explosion data:** Not available  
**Sensitivity to static discharge:** Not available  
**Personal precautions:** Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

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### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**Methods for containment:** Prevent entry into waterways, sewers, basements or confined areas.  
**Methods for cleaning up:** Before attempting clean-up, refer to hazard data given above. Small spills may be absorbed, swept up and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

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### SECTION 7 - HANDLING AND STORAGE

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**Handling:** Use good industrial hygiene practices in handling this material.  
**Storage:** Keep out of reach of children. Store in a closed container away from incompatible materials.

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### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Engineering controls:** General ventilation normally adequate.

#### EYE / FACE PROTECTION

**Personal protective equipment:** Wear safety glasses with side shields.  
**Hand protection:** Rubber gloves. Confirm with a reputable supplier first.  
**Skin and body protection:** As required by employer code.  
**Respiratory protection:** Respirators fitted with filters to standard 42CFR84 under series N95 should be worn when dust is present. If the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL) use a quarter or half mask respirator with a N95 dust filter or a single use dust mask rated N95. If dust

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### General hygiene considerations:

concentration is greater than ten times and less than fifty times the PEL, a full face respirator fitted with replaceable N95 filters is recommended. A dust concentration greater than fifty and less than two hundred times the PEL use a power air purifying (positive pressure) respirator with a replaceable N95 filter. If dust concentration is greater than two hundred time the PEL, use a type C, supplied air respirator (continuous flow, positive pressure), with full face piece, hood or helmet.

Avoid dust. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. When using, do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

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<b>Appearance:</b>	Solid – Sand like texture
<b>Color:</b>	Buff to Beige
<b>Form:</b>	Fine Granular
<b>Odor:</b>	Mild to Strong Pungent
<b>Odor threshold:</b>	Not available
<b>Physical state:</b>	Solid Granular
<b>pH:</b>	Not available
<b>Freezing point:</b>	Not available
<b>Boiling point:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability limits in air, lower, % by volume:</b>	Not available
<b>Flammability limits in air, upper, % by volume:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Specific gravity:</b>	Not available
<b>Octanol/water coefficient:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available

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## SECTION 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

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<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Do not mix with other chemicals.
<b>Incompatible materials:</b>	Oxidizers.

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**Hazardous decomposition products:** None known.  
**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

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### SECTION 11 - TOXICOLOGICAL INFORMATION

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#### EFFECTS OF ACUTE EXPOSURE

**Eye:** May cause irritation.  
**Skin:** May cause irritation.  
**Inhalation:** May cause respiratory tract irritation.  
**Ingestion:** May cause stomach distress, nausea or vomiting.  
**Sensitization:** Not available  
**Chronic effects/ Carcinogenicity:** The granular product can contain respirable dust, composed primarily of amorphous silica but possibly with a small fraction of crystalline silica. Amorphous silica is not classified a carcinogenic to humans. Chronic inhalation of crystalline silica dust in excess of the Threshold Limit Value (TLV) recommended by the American Conference of Government Hygienists (ACGIH) (0.025mg/ cubic meter) or in excess of the Permissible Exposure Limit (PEL) established by OSHA (0.050mg/cubic meter), over a prolonged number of years may contribute to silicosis. Crystalline silica, when inhaled as respirable dust, has been classified in a 1997 monograph (Volume 68 "Silica") of the International Agency for Research on Cancer (ARC) as carcinogenic to humans over prolonged and sustainable exposure.  
**Mutagenicity:** Not available  
**Reproductive effects:** Not available.  
**Teratogenicity:** Not available  
**Ecotoxicity:** Not available

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### SECTION 12 - ECOLOGICAL INFORMATION

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**Environmental effects:** Not available  
**Aquatic toxicity:** Not available  
**Persistence / degradability:** Not available  
**Bioaccumulation / accumulation:** Not available  
**Partition coefficient:** Not available  
**Mobility in environmental media:** Not available  
**Chemical fate information:** Not available

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## SECTION 13 - DISPOSAL CONSIDERATIONS

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**Waste codes:** Not available  
**Disposal instructions:** Dispose in accordance with all applicable regulations.  
**Waste from residues / unused products:** Not available  
**Contaminated packaging:** Not available

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## SECTION 14 - TRANSPORTATION INFORMATION

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**U.S. Department of Transportation (DOT):** Not regulated as dangerous goods.  
**US Federal regulations:** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

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## SECTION 15 - REGULATORY INFORMATION

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**29 CFR 1910.1200 hazardous chemical Occupational Safety and Health Administration (OSHA):** No  
**CERCLA (Superfund) reportable quantity:** Not Available

### HAZARD CATEGORIES

#### Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate Hazard No  
Delayed Hazard No  
Fire Hazard No  
Pressure Hazard No  
Reactivity Hazard No

**Section 302 extremely hazardous Substance:** No

**Section 311 hazardous chemical:** No

**Clean Air Act (CAA):** Not available

**Clean Water Act (CWA):** Not available

**State regulations:** WARNING: This product contains a chemical known to the State of California to cause cancer.

### INVENTORY STATUS

**Inventory Country(s) or region name on inventory (yes/no)\*:**

Yes - A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

**Disclaimer:** Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in

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some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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### SECTION 16 - OTHER INFORMATION

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<b>Issue date:</b>	02-June-2010
<b>Effective date:</b>	<b>02-June-2010</b>
<b>Prepared by:</b>	The Liquid Fence Company, Inc. (800) 923-3623