Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: HOT SAUCE® Animal Repellent & Some Lepidoptera Larvae Species Repellant  
Chemical Name: Adjuvant  
Common Name, Synonym: Hot pepper derived animal repellent  
Material Uses: Animal deterrent  
Manufacturer/Manufactured For: Miller Chemical and Fertilizer Corporation  
Phone: (717) 632-8921  FAX: (717) 646-1104  CHEMTREC: (800) 424-9300

Section 2 – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product has been tested as a whole to determine its hazard – see section 11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PA Right to Know: This product contains proprietary ingredients  
This product contains the following chemicals subject to the reporting requirements of Section 13Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the corresponding CAS numbers and typical percent by weight are also provided).  
None

Section 3 – Hazards Identification

⭐⭐⭐⭐⭐ Emergency Overview ⭐⭐⭐⭐⭐

Primary Entry Routes: Eye and skin contact is the most likely exposure. Ingestion is possible. Contact with or inhalation of sprays may cause irritation to eyes, nasal and throat.  
Target Organs: Eyes, skin and respiratory tract.  
Potential Health Effects  
Inhalation: Spray may cause irritation to nose, throat, mucous membranes, coughing, or difficulty in breathing.  
Eye: May cause eye irritation.  
Skin: May cause skin irritation.  
Ingestion: Large doses may cause nausea, vomiting, and stomach pain or cramps.  
Acute Effects: Irritation  
Chronic Effects: None known  
Signs and Symptoms of exposure: Severe Irritation  
Medical Condition Aggravated by Long-Term Exposure: None known  
Physical Hazards: Refer to MSDS section 7 for handling and storage  
Signal Word: CAUTION
Section 4 – First Aid Measures

Hot Sauce has a profound irritant action and should be removed completely if contact with any body surface occurs.

EYE CONTACT
Irrigate with copious amounts of water (two minutes, wait one minute and then another two minutes). Follow with an antibiotic drop or combination of antibiotic-steroid drop to the eye. No Patch

SKIN CONTACT
Wash with copious amounts of soap and water and/or alcohol. The use of cold water will result in less discomfort. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If redness or rash develops and persists, seek medical attention. Wash or clean contaminated clothing and shoes before wearing again.

INHALATION
If inhaled or aspirated into the throat, lungs or bronchial tubes, first oxygen should be administered then they should be transported to a medical facility.

INGESTION
If swallowed, DO NOT induce vomiting. Wash with a large bore tube and saline solution followed by installation of antacids and antihistamine such as Benadryl Cimetidine, also may be used to prevent bleeding caused by secondary hyperacidity. Call a physician immediately!

Section 5 – Fire-Fighting Measures

Flash Point (METHOD): > 300°F (COC)
Auto-Ignition: Not Available
Flammable Limits: Not Available
Extinguishing Media: Use alcohol foam, carbon dioxide, water fog, dry chemical, or halon when fighting fires involving this material.
Special Fire Fighting Procedures: None currently known.
Unusual Fire and Explosion Hazards: Oxides of carbon may be generated.

Section 6 – Accidental Release Measures

Personal precautions
Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.
Section 6 – Accidental Release Measures continued

Contain spill
Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If required, notify state and local authorities.

Disposal Method
Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 – Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry place between 41°F and 104°F (5° and 40°C). Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:
Mechanical: Mechanical ventilation is preferred.

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.
**Section 8 – Exposure Controls/Personal Protection continued**

**Work Hygienic Practices:** Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.

**Other Protective Equipment:** Safety shower, eye wash fountain, and washing facilities should be readily available.

---

**Section 9 – Physical and Chemical Properties**

**Appearance:** Red-brownish viscous liquid

**Odor:** Pungent spicy Odor

**pH (aqueous approx. 5% in DW):** 6.80 to 7.20 @ 68°F (20°C)

**Boiling point/Boiling range:** >400°F

**Freeze Point:** Not Determined

**Flash Point:** Not Determined

**Vapor Pressure (mmHg):** < 10 mmHg

**Vapor Density (Air=1):** Not Determined

**Solubility in Water:** Fully dispersible

**Specific Gravity (H₂O=1 @ 4°C):** 1.00 – 1.05 g/mL @ 68°F (20°C)

**Evaporation Rate (NA=1):** Not Determined

**Percent Volatile by Volume:** Not Determined

---

**Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable

**Materials to Avoid:** Excessive heat and sources of ignition

**Hazardous Decomposition or Byproducts:** Pungent fumes may be emitted when heated above 170°F. Carbon oxides (CO, CO₂, C₂O₄, etc.)

**Hazardous Polymerization:** Will not occur
Section 11- Toxicological Information

Toxicity Data:

Acute Eye Irritation: May cause irritation
Acute Dermal Effects: Topical irritation
Acute Oral Effects: LD$_{50}$(rat): >5000 mg/kg, severe irritation to stomach possible
Acute Inhalation Effects: LC$_{50}$(rat): > 2.01 mg/L, severe irritation to lungs possible
Chronic Effects: Data not available
Carcinogenicity: Data not available
Mutagenicity: Data not available
Teratogenicity: Data not available

Section 12 – Ecological Information

Ecotoxicity: This product is a spray adjuvant. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways.
Aquatic Toxicity: Data not available
Environmental Fate: Data not available

Section 13 – Disposal Considerations

Disposal: If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal Regulatory Requirements: Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container Cleaning and Disposal: Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
Packing Group:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:
Section 14 – Transport Information continued

WATER TRANSPORTATION
   PROPER SHIPPING NAME:
   PACKING GROUP:
   HAZARD CLASS:
   LABEL/PLACARD REQUIRED:
   UN/NA No.:

AIR TRANSPORTATION
   PROPER SHIPPING NAME:
   PACKING GROUP:
   HAZARD CLASS:
   LABEL/PLACARD REQUIRED:
   UN/NA No.:

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard

Section 15 – Regulatory Information

EPA Regulations:
   Reportable Quantity –CERCLA: Not applicable
   SARA Title III (EPCRA): Not applicable
   RCRA Waste Code: Not applicable

State Regulations:
   CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802
Preparation Date: 03/26/2012  
Prepared By: Miller Chemical Compliance Officer  
Revision Date:  
Revision Notes:  

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET (“MSDS”) RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE “PRODUCT”). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS MSDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND NEITHER MILLER CHEMICAL AND FERTILIZER CORPORATION. NOR ITS MARKETING AFFILIATES (EACH, A “SELLER”) ASSUME ANY LEGAL RESPONSIBILITY FOR THE USE OR RELIANCE UPON SAME.