

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration  
**MATERIAL SAFETY DATA SHEET**

May be used to comply with OSHA's Hazard Communications Standard.  
29CFR 1910.1200. Standard must be consulted for specific requirements.

**SECTION I**

|   |   |
|---|---|
| <b>MANUFACTURER'S NAME/REPACKAGED BY:</b><br><b>ARI / Certified Safety Mfg. Co., Inc.</b> | <b>TELEPHONE NO.</b><br><b>(816) 483-9090</b> |
| <b>ADDRESS:</b><br><b>1400 Chestnut Avenue Kansas City, Missouri 64127</b>                |   |
| <b>IDENTITY (AS USED ON LABEL):</b><br><b><i>Insect Repellent Spray 100% Deet</i></b>     | <b>DATE PREPARED:</b><br>12/23/09             |
|   | <b>DATE REVIEWED:</b>                         |

**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

|   |                  |          |           |                          |
|---|------------------|----------|-----------|--------------------------|
| <b>HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s)):</b>   |                  |          |           |                          |
|   | %                | OSHA PEL | ACGIH TWA | OTHER LIMITS RECOMMENDED |
| N, N-Diethyl-m-toluamide  | CAS#134-62-3 95% | N/E      | N/E       |                          |
| Diethyl ortho toluamide   | <5.0%            |          |           |                          |
| Diethyl para toluamide  | <5.0%            |          |           |                          |
| THIS PRODUCT IS PRODUCED AS A HEALTH CARE ITEM "FOOD, DRUG OR COSMETIC,<br>INTENDED FOR PERSONAL CONSUMPTION BY EMPLOYEES WHILE IN THE WORKPLACE"<br>TO WHICH THE HAZARDOUS COMMUNICATIONS REQUIREMENTS OF; 29CFR1910.1200<br>(A) & (B) DO NOT APPLY, AS SPECIFICALLY STATED IN 29CFR 1910.1200 (B) (5) (V) |                  |          |           |                          |

**SECTION III – PHYSICAL DATA**

|                                 |                                    |  |       |
|---------------------------------|------------------------------------|--|-------|
| <b>BOILING POINT (°F):</b>      | 111° C                             | <b>SPECIFIC GRAVITY (H<sub>2</sub>O= 1):</b> | .9959 |
| <b>VAPOR PRESSURE (mm Hg.):</b> | 1.67x10 <sup>-3</sup> mm Hg@25C    | <b>MELTING POINT:</b>                        | N/A   |
| <b>SOLUBILITY IN WATER:</b>     | Insoluble                          | <b>% Volatiles by Volume</b>                 | N/D   |
|                                 |                                    | <b>EVAPORATION RATE (=1)</b>                 | N/D   |
| <b>APPEARANCE AND ODOR:</b>     | clear liquid - mild aromatic odor. |  |       |

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

|   |                          |          |          |
|---|--------------------------|----------|----------|
| <b>FLASH POINT (Method used):</b> 302 ° F (TCC)   | <b>FLAMMABLE LIMITS:</b> | LEL: N/D | UEL: N/D |
| <b>EXTINGUISHING MEDIA:</b> Use water fog, alcohol foam, dry chemical or CO <sub>2</sub>  |                          |          |          |
| <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Treat as an oil fire. Use a full face self-contained breathing apparatus.<br>Keep nearby containers and equipment cool with water spray. |                          |          |          |
| <b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b> None known   |                          |          |          |

**SECTION V – REACTIVITY DATA**

|  |                       |   |                                 |
|--|-----------------------|---|---------------------------------|
| <b>STABILITY:</b>  | <b>STABLE</b>         | √ | <b>CONDITIONS TO AVOID:</b> N/A |
|  | <b>UNSTABLE</b>       |   |                                 |
| <b>INCOMPATIBILITY (Materials to avoid):</b> Avoid contacts with plastics or lacquered surfaces. |                       |   |                                 |
| <b>HAZARDOUS POLYMERIZATION:</b>   | <b>MAY OCCUR</b>      |   | <b>CONDITIONS TO AVOID:</b> N/A |
|  | <b>WILL NOT OCCUR</b> | √ |                                 |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> None known  |                       |   |                                 |

**SECTION VI – HEALTH HAZARD DATA**

**ROUTE(S) OF ENTRY: INHALATION:** Should not cause problems at normal temperatures, but the inhalation of the vapors at elevated temperatures may cause respiratory irritation. **SKIN CONTACT:** Contact with this product before dilution may cause irritation. **EYE CONTACT:** Can cause severe irritation, redness, tearing and blurred vision.

**INGESTION:** Can cause irritation of the stomach and intestines, possibly resulting in nausea and vomiting.

**EFFECTS OF OVEREXPOSURE:** Acute oral rats LD (50)-195 mg/kg. May cause irritation. Acute dermal rabbits LD(50) – 10000 mg/kg.

**EMERGENCY AND FIRST AID PROCEDURES: Eyes:** Flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention. **Skin:** Wash off skin with soap and water. **Ingestion:** Give affected person 2 glasses of water. Call a physician. Never give anything by mouth to an unconscious person. **Inhalation:** Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.

**NOTES TO PHYSICIANS:** No antidotes.

**SECTION VII – SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Neutralizing chemical:** Soak up on absorbent material (sand, clay, floor absorbent, etc.)

**WASTE DISPOSAL & PRECAUTIONS:** Aerosol container, make sure empty before disposing. Consult current local, State and federal regulations.

**SECTION VIII – SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION (*Specify type*):** In the absence of proper ventilation or at elevated temperatures, use a NIOSH/MSHA approved respirator.

**VENTILATION:** Mechanical ventilation should be used when handling in enclosed spaces.

**PROTECTIVE GLOVE:** Yes, chemical resistant gloves.

**EYE PROTECTION:** OSHA-approved safety glasses, goggles, or face shield.

**OTHER PROTECTIVE EQUIPMENT:** None

**SECTION IX – SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep containers upright and closed. Store in areas that are cool, dry and well ventilated. Store away from ignition sources. Do not contaminate water, feed, or food by storage or disposal. Read and observe all precautions and instructions on the product label.

**OTHER PRECAUTIONS:** DO NOT spray toward eyes or mouth.

THIS INFORMATION AND RECOMMENDATIONS HEREIN ARE TAKEN FROM SOURCES BELIEVED TO BE ACCURATE AS OF THE DATE, HOWEVER CERTIFIED SAFETY MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THIS INFORMATION OR THE SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USE THEREOF.....