

## MATERIAL SAFETY DATA SHEET



DATE PREPARED: 02/04/2002  
MSDS No: 6031A

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ortho® HomeDefense® Flying Insect Killer  
**PRODUCT DESCRIPTION:** Insecticide (Aerosol)

**MANUFACTURER**  
The SOLARIS Group  
U.S.A.  
of Monsanto Company  
P.O. Box 5008  
San Ramon, CA 94583-0808

**24 HR. EMERGENCY TELEPHONE NUMBERS**  
Emergency Phone: 800-225-2883

**EPA REG. NO.:** 239-2512E PN: 6031A

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS#
D-Trans Allethrin, d-trans allethrin (allyl homolog of cinerin 1)	0.3	584-79-2
Sumithrin (Phenothrin)	0.2	26002-80-2
INERT INGREDIENTS	~99.49	

> "Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act (40 CFR 158.153). It refers to any substance, other than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** White, creamy smooth liquid in aerosol container

**IMMEDIATE CONCERNS:** - HARMFUL IF SWALLOWED

- HARMFUL IF ABSORBED THROUGH THE SKIN
- AVOID CONTACT WITH EYES, SKIN OR CLOTHING
- AVOID BREATHING VAPOR OR SPRAY MIST
- EXTREMELY FLAMMABLE
- KEEP OUT OF REACH OF CHILDREN

#### POTENTIAL HEALTH EFFECTS

**EYES:** This substance is slightly irritating to the eyes. Eye contact may include discomfort, tearing, redness, swelling, and blurred vision. See Toxicological Information, section 11.

**SKIN:** This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

**INGESTION:** If swallowed, this substance is considered practically non-toxic to internal organs. Because of the low viscosity of this substance, it can directly enter the lungs if it is swallowed (this is called aspiration). This can occur during the act of swallowing or when vomiting the substance. Once in the lungs, the substance is very difficult to remove and can cause severe injury to the lungs and death.

**INHALATION:** If inhaled, this substance is considered practically non-toxic to internal organs. Breathing the vapor may be irritating to the respiratory tract.

**PHYSICAL HAZARDS:** Contents under pressure.

### 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** This material contains light hydrocarbon liquid and an aspiration hazard may exist.

---

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** N.F.P.A (Code 30B) Level I Aerosol

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, Dry Chemical, Foam and Water Fog.

**HAZARDOUS COMBUSTION PRODUCTS:** No data available.

**FIRE FIGHTING PROCEDURES:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Keep containers cool with a water spray. Read the entire document.

**FLASHPOINT:** Flash Point for concentrate = 118°F

---

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Soak up spilled material with paper towels or other absorbent material and discard in trash. Product is highly flammable. Keep all sources of ignition away from spill.

**LARGE SPILL:** Eliminate all sources of ignition in vicinity of spill or released vapor. Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent material. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13, "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs or feed by storage or disposal.

---

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Store in accordance with NFPA 30B for a Level I aerosol. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. CONTAINER UNDER PRESSURE. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate or store above 130°F.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use this material only in well ventilated areas.

### PERSONAL PROTECTION

**EYES AND FACE:** Avoid getting this material in your eyes. Eye contact can be avoided by wearing chemical goggles.

**SKIN:** Avoid contact with skin or clothing. In the workplace, skin contact should be minimized by wearing protective clothing including chemical resistant gloves.

**RESPIRATORY:** Handling of the product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy mist, workers should put on respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer.  
 For application of product in accordance with label instructions, no special respiratory protection is required.

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):**

Chemical Name	EXPOSURE LIMITS		
	OSHA PEL	ACGIH TLV	ACGIH STEL
Sumithrin (Phenothrin)	None	None	None
Aromatic Hydrocarbon	100 ppm	100 ppm	150 ppm
Propane/Isobutane	(Asphyxiant) 1800 mg/m3	None	None
Hydrotreated Heavy Naphtha	None	None	None
Coconut Fatty Acid Diethanolamide	None	None	None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Aerosol  
**APPEARANCE:** Opaque white liquid emulsion in aerosol canister  
**PERCENT VOLATILE:** No Data Available  
**VAPOR PRESSURE:** Not Determined  
**VAPOR DENSITY:** No data Available  
**SOLUBILITY IN WATER:** Nondispersible in water  
**SPECIFIC GRAVITY:** 0.944 gr/cc at 20°C  
**VISCOSITY:** ~100 to 3000cps (Brookfield )

**COMMENTS:**  
**DENSITY:** 8 lb/gal

**10. STABILITY AND REACTIVITY**

**STABLE:** NO  
**HAZARDOUS POLYMERIZATION:** NO  
**CONDITIONS TO AVOID:** Heat and acidic or alkaline conditions may cause this product to break down. Contact with strong oxidizers may produce an explosive mixture.  
**HAZARDOUS DECOMPOSITION:** No Data Available

**11. TOXICOLOGICAL INFORMATION**

**ACUTE**  
**EYES:** Found to be moderately irritating to rabbit eyes; irritation cleared by 24 hours. EPA FIFRA Toxicity Category - III.  
**DERMAL LD<sub>50</sub>:** Mild dermal irritation, EPA FIFRA Category III; No product toxicology data available for acute dermal LD50 determination.  
**ORAL LD<sub>50</sub>:** The oral LD50 (rats) is > 5 g/kg. EPA FIFRA Toxicity Category - IV.  
**INHALATION LC<sub>50</sub>:** The 4-hour acute inhalation LC50 in rats was >5 g/L air, EPA FIFRA Toxicity Category - IV.  
**SENSITIZATION:** No product toxicology data available.  
**CARCINOGENICITY:**  
**IARC:** No  
**NTP:** No  
**OSHA:** No

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** No data available.

**ECOTOXICOLOGICAL INFORMATION:** This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

---

### 13. DISPOSAL CONSIDERATIONS

**FOR LARGE SPILLS:** Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

**PRODUCT DISPOSAL:** If necessary to dispose of partially filled product container, securely wrap it in several layers of newspaper and discard in trash.

**GENERAL COMMENTS:** This container may be recycled in the few but growing number of communities where (steel) aerosol can recycling is available. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE) If recycling is not available, wrap the container and discard in the trash.

---

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Consumer Commodity  
**PRIMARY HAZARD CLASS/DIVISION:** ORM-D  
**UN/NA NUMBER:** NONE  
**PACKING GROUP:** NO  
**U.S. SURFACE FREIGHT CLASS:** NMFC NBR. 102120

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME:** Consumer Commodity

**SPECIAL SHIPPING NOTES:** The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

---

### 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE: YES	CHRONIC: NO	FIRE: YES	REACTIVITY: NO	PRESSURE GENERATING: YES

**313 REPORTABLE INGREDIENTS:** SUMITHRIN (CAS 7696-12-0). De Minimis Concentration for Section 313 is 1.0%.

---

### 16. OTHER INFORMATION

**HMIS CODES**

**FIRE: 4 HEALTH: 1 REACTIVITY: 0 HMIS RATINGS NOTES:** HMIS rating includes hazards from propellant.

**NFPA CODES**

**FIRE: 4 HEALTH: 1 REACTIVITY: 0**

**APPROVAL DATE:** 02/04/2002

**REVISION SUMMARY** New MSDS

**HMIS RATINGS NOTES:** HMIS rating includes hazards from propellant.

**COMMENTS:** For additional information concerning this product, call the SOLARIS Groups Consumer Helpline at 800-225-2883.

**MANUFACTURER DISCLAIMER:** This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label. Information contained in this MSDS will help you to prepare for emergency response and to meet

community right-to-know, emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company and The Solaris Group make no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Monsanto Company or The Solaris Group be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.