

MATERIAL SAFETY DATA SHEET



DATE PREPARED: 10/09/1998
MSDS No: 6023

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HomeDefense Home & Garden 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.: 239-2524C **PN:** 1000-91

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Tetramethrin	0.2	7696-12-0
Sumithrin (Phenothrin)	0.2	26002-80-2
Other Ingredients	99.6	

COMMENTS: Contains Petroleum Distillate, Xylene, or Xylene Range Aromatic Solvent.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White, creamy smooth liquid in aerosol container

IMMEDIATE CONCERNS: Causes moderate eye irritation.

Avoid contact with eyes, skin or clothing.
Harmful if inhaled. Avoid breathing vapor.
Contents under pressure.
Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

EYES: The eye irritation of this formulation has been determined on a similar ORTHO formulation. Eye contact may result in slight to moderate eye irritation, e.g. discomfort, redness, swelling and blurred vision. See Toxicology Information, section 11.

SKIN: The skin irritation of this formulation has been determined on a similar ORTHO formulation. Skin contact may result in moderate skin irritation, e.g. discomfort, redness, swelling and possibly blistering. This product is considered to be practically non-toxic to internal organs if it gets on the skin. See Toxicology Information, section 11.

INGESTION: This substance may be slightly toxic to internal organs if swallowed. The degree of injury will depend on the amount absorbed from the gut. This product contains a petroleum distillate. Petroleum distillates have a low viscosity and can be aspirated into the lungs either during swallowing or vomiting of the product. See Toxicology Information, section 11.

INHALATION: The inhalation toxicity of this substance has been determined on a similar ORTHO product. However, it may be slightly toxic to internal organs if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. This substance may be irritating if inhaled. Respiratory tract irritation may include, but not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis and difficulty in breathing. See Toxicology Information, section 11.

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: Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause pneumonitis.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: >132°F TAG CC

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

EXTINGUISHING MEDIA: Alcohol Foam, CO₂, Dry Chemical, Water Fog

HAZARDOUS COMBUSTION PRODUCTS: No data available.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Keep containers cool with a water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels and discard in trash.

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 attapulgate, 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.

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION".

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.

STORAGE TEMPERATURE: Do not store above 130 F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Read and observe label instructions for exposure controls/personal protection. No special ventilation is required under normal use conditions. However, if workplace operating conditions create airborne concentrations which exceed the recommended exposure standards (in Section 8), then special ventilation may be required.

PERSONAL PROTECTION

EYES AND FACE: Follow label precautions for product application. Avoid contact with eyes. Where there is potential for eye contact under manufacturing conditions, wear chemical goggles and have eye wash equipment available.

SKIN: Follow label precautions for skin protection. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

RESPIRATORY: This material may be an industrial inhalation hazard and, unless ventilation is adequate, the use of approved respiratory protection is recommended. Follow label application instructions and avoid breathing vapors.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>		
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>
Tetramethrin	None	None	None
Sumithrin (Phenothrin)	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Aerosol

APPEARANCE: Opaque white liquid in aerosol canister

pH: No Data Available

PERCENT VOLATILE: No Data Available

DENSITY: No Data Available

SPECIFIC GRAVITY: 0.95 gr/cc at 20°C

VISCOSITY: ~380 to 3000cps (Brookfield) at 25°C

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with temps. above 130F. Contents under pressure.

HAZARDOUS DECOMPOSITION: No Data Available

INCOMPATIBLE MATERIALS: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: The eye irritation of this product has been determined on a similar ORTHO formulation considered to be slight to moderate eye.

Eye irritation clearing by 48 hours.

EPA FIFRA toxicity category - III.

DERMAL LD₅₀: = > 5.0 g/kg. EPA FIFRA toxicity category - IV.

SKIN IRRITATION: Results with a similar product revealed moderate erythema and edema at 72 hours. This product is not expected to be toxic by dermal absorption.

EPA FIFRA toxicity category - IV.

ORAL LD₅₀: = >5.0 mg/kg. EPA FIFRA toxicity category - IV.

INHALATION LC₅₀: similar formulations - this product is not expected to be toxic.

EPA FIFRA toxicity category - III.

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: The active ingredients in this product are not considered to be carcinogens.

NEUROTOXICITY: Neurotoxicology investigations indicate that active ingredients in this product have not been associated with delayed neuropathy.

REPRODUCTIVE TOXIN: The active ingredients in this product have not been associated with adverse teratological (birth defects) or adverse reproductive effects.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This material is highly toxic to fish. Keep out of any body of water. Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

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: Carefully follow all label directions and precautions. If necessary to dispose of a partially filled product container, secure cap and discard in the trash. Do not incinerate, puncture, or discard in home trash compactor.

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

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 26002-80-2). TETRAMETHRIN (CAS 7696-12-0) De Minimis Concentration for Section 313 is 1.0%.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

16. OTHER INFORMATION

HMIS CODES

FIRE: 4 HEALTH: 2 REACTIVITY: 0

NFPA CODES

FIRE: 4 HEALTH: 2 REACTIVITY: 0

APPROVAL DATE: 10/09/1998

REVISION SUMMARY Revision #: 1

This MSDS replaces the September 12, 1995 MSDS. Any changes in information are as follows:

In Section 1

Prepared By Date Prepared EPA Product Number

In Section 3

Emergency Overview - Immediate Concerns (text) Potential Health Effects - Eyes (text) Potential Health Effects - Skin (text) Potential Health Effects - Ingestion (text)

In Section 4

Firstaid - Eyes (text) Firstaid - Skin (text)

In Section 11

Acute Eye (text) Dermal LD50 (text) Carcinogenicity (text) Neurotoxicity (text) Oral LD50 (text) Inhalation LC50 (text) Reproduction (text)

In Section 12

Ecotoxicological Information (text)

In Section 16

Manufacturer Supplemental Notes (text)

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

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.