



Product: ROSE DEFENSE® II RTU
 EPA Reg. No.: 70051-74-869
 Effective Date: 07/01/2001

MATERIAL SAFETY DATA SHEET
 Emergency Phone 800/535-5053

Size	Product Number	UPC Code
24 oz	07924	0 49424 07924 7
Quart	07932	0 49424 07932 2

Note: Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

1. INGREDIENTS

Pyrethrins	0.02%	CAS Number 8003-34-7
Piperonyl Butoxide	0.20%	CAS Number 51-03-6
Clarified Hydrophobic Extract of Neem Oil	0.90%	CAS Number 8002-65-1

2. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Liquid
COLOR:	Brown
ODOR:	Garlic
BOILING POINT:	> 392°F 200°C
MELT POINT/FREEZE POINT:	55°F 12.78°C
FLASH POINT:	> 239°F 115°C
AUTO IGNITION:	N/A
UPPER EXPLOSIVE LIMITS (UEL):	N/A
LOWER EXPLOSIVE LIMITS (LEL):	N/A
pH:	6.5 - 7.5
SOLUBILITY IN WATER:	Soluble
SPECIFIC GRAVITY:	0.9137
BULK DENSITY:	N/A
% VOLATILE BY WEIGHT:	N/A
VAPOR PRESSURE at 20°C:	< 1.33 EE-5 Pa
VAPOR DENSITY:	Greater than air

3. HAZARDOUS DATA

POTENTIAL HEALTH EFFECTS:	This product is intended for use as a pesticide to control fungi, insects, and mites on ornamental plants. This product should pose no health concerns through normal use.
ROUTE(S) OF ENTRY:	Eyes, skin, oral.
HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:	None noted.
ACUTE EYE CONTACT:	May cause mild, reversible eye irritation.
CHRONIC EYE CONTACT:	Chronic exposure not likely from normal use.
ACUTE SKIN CONTACT:	May cause mild, reversible skin irritation. LD50 >2 g/kg.
CHRONIC SKIN CONTACT:	Repeated exposure may cause mild sensitization.
ACUTE INGESTION:	LD50 >5 g/kg.
CHRONIC INGESTION:	Chronic exposure not likely from normal use.
ACUTE INHALATION:	LD50 >6.2 mg/L
CHRONIC INHALATION:	Chronic exposure not likely from normal use. Product is nonvolatile.
CARCINOGENICITY:	NTP: N/A IARC: N/A OSHA: N/A
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	None noted.



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- 4. FIRST AID MEASURES**
FIRST AID FOR EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.
FIRST AID FOR SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.
FIRST AID FOR INHALATION: Remove to fresh air. Seek medical attention if irritation persists.
FIRST AID FOR INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.
- 5. FIRE FIGHTING MEASURES**
EXTINGUISHING MEDIA: Alcohol or polymer foam, carbon dioxide, dry chemical, or water.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.
SPECIAL FIRE FIGHTING PROCEDURES: None.
- 6. ACCIDENTAL RELEASE MEASURES**
SPILL OR LEAK PROCEDURES: Absorb the liquid and scrub the area with detergent and water. Avoid runoff into storm sewers and ditches which lead to waterways.
- 7. HANDLING AND STORAGE**
STORAGE TEMPERATURE (MIN./MAX.): 55°F / 95°F 12.78F / 35°C
SHELF LIFE: Stable under normal storage conditions for upwards of two years.
SPECIAL SENSITIVITY: Keep from freezing.
HANDLING AND STORAGE PRECAUTIONS: None.
- 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**
EYE PROTECTION REQUIREMENTS: Use of safety glasses goggles is recommended when handling.
SKIN PROTECTION REQUIREMENTS: Use of protective gloves is recommended when handling.
RESPIRATORY/VENTILATION REQUIREMENTS: No special ventilation requirements.
EXPOSURE LIMITS: None.
- 9. STABILITY AND REACTIVITY**
STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: None noted.
DECOMPOSITION PRODUCTS: N/A
CONDITIONS TO AVOID: None.
- 10. TOXICOLOGICAL INFORMATION**
Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. In case of contact flush eyes or skin with plenty of water. Get medical attention if irritation persists.
- 11. ECOLOGICAL INFORMATION**
Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.



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12. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.

13. TRANSPORTATION INFORMATION

D.O.T. PROPER SHIPPING NAME: N/A
TECHNICAL SHIPPING NAME: Clarified hydrophobic extract of Neem Oil
D.O.T. HAZARD CLASS: N/A
U.N./N.A. NUMBER: N/A
PRODUCT RQ (lbs.): N/A
D.O.T. LABEL: N/A
D.O.T. PLACARD: N/A
FREIGHT CLASS BULK: N/A
FREIGHT CLASS PACKAGE: N/A
PRODUCT LABEL: N/A

14. REGULATORY INFORMATION

OSHA STATUS: N/A
TSCA STATUS: N/A
CERCLA REPORTABLE QUANTITY: N/A
SARA TITLE III:
Section 302 Extremely Hazardous
Substances: N/A
Section 311/312 Hazard Categories: N/A
Section 313 Toxic Chemicals: N/A
RCRA STATUS: N/A

STATE REGULATORY INFORMATION:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For detail on your regulatory requirements you should contact the appropriate agency in your state.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate as of the effective date given above, Green Light makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Green Light's control. Therefore, users are responsible for determining whether under their own operating conditions the product is suitable for their particular use. Users assume all risks of use, handling, and disposal of the product. The publication or use of, or reliance upon, information contained herein does not relate to the use of this product in combination with any other material or in any other process.