



Material Safety Data Sheet

Woodstream Corporation
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SECTION I: MATERIAL IDENTIFICATION

Product Number/Size: 5101 24 Ounce (fluid)
Trade Name: Safer® Brand End All
Also Known As: End All
Description: Liquid Insecticide RTU
Chemical Composition: Liquid
Regulatory Licenses: EPA Reg. No. 59913-14

SECTION II: INGREDIENTS

Non-Hazardous Component (s)	CAS #	Chemical Formula
Pyrethrins	8003-34-7	
Potassium Salts of Fatty Acids	143-18-0	
Clarified Hydrophobic Extract of Neem Oil	8002-65-1	

Hazardous Ingredient (s)	% BY WT	CAS #	OSHA/TWA	PEL/STEL	ACGIH/TWA	TLV/STEL
Denatured Ethanol - SDA 3C 190 Proof	<2.0	64-17-5	1900 mg/m3	NE	1880 mg/m3	NE
Hydrochloric Acid	<2.0	7647-01-0	5 ppm	NE	2 ppm	NE

SECTION III: PHYSICAL DATA

Boiling Point: Not Determined
Vapor Pressure (mm Hg): Not Determined
Vapor Density (AIR=1): Not Determined
Bulk Density: 0.986 g/ml
Freezing Point: Not Determined
Solubility in Water: Forms Emulsion
Appearance: Yellow

Viscosity: 14.2 mPa-s
Odor: Fatty-Acid Like
Specific Gravity (Water=1): N/A
Percent. Volatile by Volume %: N/A
Evaporation Rate (Xylene=1): N/A
Physical State: Liquid Emulsion
pH: 7.71

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method): 72 F
Autoignition Temp.: N/A
Flammable Lcl: N/A
Flammable Ucl: N/A
Hazardous Products of Combustion: Carbon Oxides

NFPA Health Rating: 1
NFPA Fire Rating: 4
NFPA Reactivity Rating: 0
Extinguishing Material: CO2, dry chemical, foam, water

Special Fire Fighting Procedures:

SECTION V: HEALTH HAZARD DATA

General Statement: Material is considered hazardous per 29 CFR 1910.1200. Avoid contact with skin, eyes and clothing.
Occupational Exposure Limit: See Section II
Effects of Over Exposure: None Expected
Carcinogenicity: None listed per OSHA, NTP, or IARC.
Chronic Effects: Ethanol has been shown to be a developmental toxin from chronic ingestion; such effects are not anticipated from appropriate use of this product.
Rec. Exp. Limits: See Section II
Potential Health Effects: None Expected
Acute Oral: >5000 mg/kg rat
Acute Dermal: >5000 mg/kg rat
Acute Inhalation: >2.11 mg/L rat
Eye Irritation: Moderate Irritant
Skin Irritation: Slight Irritant
Sensitization: Not a Sensitizer

Route of Entry Symptoms/Effects of Overexposure First Aid

Skin	Irritation	Wash with plenty of soap and water. Get medical attention.
Inhalation	None Expected	Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.
Eye	Irritation	Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.
Ingestion	None Expected	If swallowed, promptly drink large amounts of water. Never give liquids to an unconscious person. Get medical attention.

SECTION VI: REACTIVITY DATA

Stability: Stable

Conditions to avoid: HEAT AND OPEN FLAME

Materials to avoid: Concentrated mineral supplements (fertilizers), strong oxidizers, acids.

Hazardous Decomposition: None

Conditions to avoid: HEAT AND OPEN FLAME

Hazardous Polymerization: Will not occur

Conditions to avoid: HEAT AND OPEN FLAME

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: Rinse with abundant water and mop up.

Waste Disposal Method: Be aware that the waste owner has responsibility for final disposal. Regulations may also apply to empty containers, liners, or rinsate. Laws may change or be reinterpreted; state and local regulations may be different from Federal regulations. This information applies to materials as manufactured; contamination or processing may change waste characteristics

Product Disposal Method: PESTICIDE DISPOSAL: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: In typical applications, no engineering controls should be needed; if industrial hygiene surveys show that occupational exposure limits may be exceeded, use NIOSH approved respirator with organic vapor/dust/mist cartridges.

Protective Gloves: Protective gloves (nitrile) recommended

Eye Protection: Recommended to avoid contact of material directly into eyes.

Protective Clothing: None required under normal use conditions.

Ventilation: None required under normal use conditions.

Other Protective Equipment: None required under normal use conditions.

Protection Note: Personal protection information provided in this Section is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

SECTION IX: SPECIAL PRECAUTIONS

Storage and Handling: Store away from heat, out of reach of children. Do not contaminate water, food or feed by storage or disposal. Do not reuse container.

Other Precautions: None

Precaution Note: None

SECTION X: ECOLOGICAL INFORMATION

Ecotoxicity: May be hazardous to aquatic invertebrates. Do not apply directly to water; do not contaminate water by cleaning of equipment or disposal of washwaters.

Environmental Fate: Not Applicable

SECTION XI: TRANSPORTATION INFORMATION
DOT HAZARD DESCRIPTION

DOT Proper Shipping Name: Consumer Commodity
Identification Number: UN2924
DOT Hazard Class/Division: ORM-D
Packaging Group: III
Packaging Instructions: 49 CFR173.150
Special Instructions: None
Placard: None
Emergency Response Guide#: N/A
US Surface Freight Class: See NMFTA Manual

IATA CLASSIFICATION

IATA Proper Shipping Name: Consumer Commodity
Identification Number: UN2924
IATA Hazard Class/Division: III
Packaging Group: III
IATA Bulk Packaging Inst: See IATA Manual
IATA Shipping Notes: See IATA Manual

IMO CLASSIFICATION

IMO Proper Shipping Name: Consumer Commodity
Identification Number: UN2924
IMO Hazard Class/Division: III
Packaging Group: III
IMO Shipping Notes: See IMO Manual
IMO Bulk Packaging Inst: See IMO Manual
IMO Stowage Category: See IMO Manual

SECTION XII: REGULATORY INFORMATION

SARA Title III: Not Regulated
SARA Product Classification: Not classified
Acute: N/A
Chronic: N/A
Fire: N/A
Reactivity: N/A
Pressure Generating: N/A
311/312 Hazard Categories: N/A
313 Reportable Ingredients: Not subject to reporting.
TSCA Regulatory: Not regulated
State Regulations: Woodstream Corp. is unaware of any local, state or federal regulations, which define the active ingredients as hazardous. As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
Proposition 65 Statement: None listed
European Classification:

SECTION XIII: OTHER INFORMATION

Memo: While this information and recommendations set forth are believed to be accurate as of the date hereof, Woodstream Corp. makes no warranty with respect hereto and disclaims all liability from reliance thereon.

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