

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Absorbine[®] UltraShield[®] EX Insecticide & Repellent

EPA REGISTRATION: EPA Reg. No. 1543-15 EPA Est. No. 73273-TX-1

GENERAL USE: Fly repellent

PRODUCT DESCRIPTION: Slightly yellow liquid, characteristic insecticide odor.



MANUFACTURER'S NAME

W. F. Young, Inc.

DATE PREPARED: October 1, 2008

SUPERSEDES: New

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ADDRESS (NUMBER, STREET, P.O. BOX)

302 Benton Drive

TELEPHONE NUMBER FOR INFORMATION

(413) 526-9999

(CITY, STATE AND ZIP CODE)

East Longmeadow, MA 01028

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

(413) 526-9999

DISTRIBUTOR'S NAME

Same

ADDRESS (NUMBER, STREET, P.O. BOX)

TELEPHONE NUMBER FOR INFORMATION

(CITY, STATE AND ZIP CODE)

COUNTRY

EMERGENCY TELEPHONE NUMBER

SECTION 2 - HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS | % (by weight) | CAS # | EINECS # | Hazard Symbol | RISK PHRASES Full Text Section 16 |
|-----------------------|------------------|------------|-----------|------------------|--------------------------------------|
| Isopropyl alcohol | 7 - 13 | 67-63-0 | 200-661-7 | F, Xi | R-11, 36, 67 |
| Permethrin (a,b) | 0.5 - 1.0 | 52645-53-1 | 258-067-9 | Xn, N | R-20/22, 43, 50/53 |
| Piperonylbutoxide (a) | 0.5 - 1.0 | 51-03-6 | 200-076-7 | T, N | R-24, 50/53 |

(a) See Section 15

(b) Permethrin (52645-53-1) is not listed on the Canadian DSL or NDSL. All other components of this product identified by CAS number are listed on the DSL or NDSL. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Avoid breathing mist and/or vapor. May cause eye and skin irritation. Do not get in eyes or on skin. May be harmful if swallowed. Wash thoroughly after handling. Wear goggles or face shield, rubber gloves, and protective clothing when handling. Hazard symbols - N, Xn. Risk phrase - R22, 50/53

POTENTIAL HEALTH EFFECTS

INHALATION: Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes. Prolonged inhalation of this product may cause ulcers to the upper respiratory tract

SKIN: Contact with skin may cause irritation, dermatitis. May cause sensitization by skin contact.

EYES: Contact with eyes may cause pain and irritation. Repeated contact with eyes may cause severe irritation.

INGESTION: This substance is slightly toxic to internal organs if swallowed. Signs and symptoms may include, but may not be limited to, headache, dizziness, weakness, nausea, vomiting and diarrhea

CARCINOGENICITY

NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.

SKIN: Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

INGESTION: If swallowed, call a physician of Poison Control Center immediately. Drink 1 or 2 glasses of water or milk. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious or convulsing person.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product will support combustion. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA
Carbon dioxide, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES
Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat.
Caution - material will support combustion!

UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers can explode due to buildup of pressure when exposed to extreme heat.

HAZARDOUS COMBUSTION PRODUCTS
Smoke, toxic fumes, oxides of carbon

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: COMBUSTIBLE. Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; refer to SARA Title III, Section 313 40 CFR 372 for details concerning reporting requirements. Do not discharge into lakes, ponds, streams or public waters.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: This material is combustible. It should be stored in tightly closed containers in a cool, well ventilated area. Vapor may form explosive mixtures in air. All sources of ignition should be controlled. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| HAZARDOUS COMPONENTS | NIOSH | | | | ACGIH | | | |
|-----------------------|-----------------|-----------|----------|------------|-----------------|-----------|----------|------------|
| | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 |
| Isopropyl alcohol | 400 | 980 | 500 | 1225 | 400 | 983 | 500 | 1230 |
| Permethrin (a,b) | not established | | | | not established | | | |
| Piperonylbutoxide (a) | 5 | | | | 5 | | | |

PERSONAL PROTECTION:
RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds standard workplace limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.

EYE PROTECTION: Protective eyeglasses or chemical safety goggles as described in 29 CFR 1910.133 or European Standard EN166. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------------------|
| APPEARANCE AND ODOR Slightly yellow liquid, characteristic insecticide odor. | VAPOR PRESSURE Not determined |
| pH 7.5 | SPECIFIC GRAVITY (WATER = 1) 0.996 |
| BOILING POINT / BOILING RANGE 212° F (100° C) | SOLUBILITY IN WATER Complete |
| FLASH POINT 200° F (93.3° C) | VISCOSITY Like that of water |
| FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable | VAPOR DENSITY (AIR = 1) > 1 |
| AUTOIGNITION TEMPERATURE Not determined | EVAPORATION RATE (WATER = 1) < 1 |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|---|
| STABILITY UNSTABLE: STABLE: X | CONDITIONS TO AVOID: Extreme temperatures, open flames. |
| INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids. | |

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

| | |
|---|---------------------------|
| HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X | CONDITIONS TO AVOID: None |
|---|---------------------------|

SECTION 11 - TOXICOLOGICAL INFORMATION

| Hazardous Components | CAS # EINECS # | LD50 of Ingredient (Specify Species and Route) | LC50 of Ingredient (Specify Species) |
|-----------------------|-------------------------|---|---|
| Isopropyl alcohol | 67-63-0 200-661-7 | 5840 mg / kg Oral - rat | 22,500 ppm / 4H Inhalation - rat |
| Permethrin (a,b) | 52645-53-1 258-067-9 | 383 mg / kg Oral - rat | 485 mg / m3 Inhalation - rat |
| Piperonylbutoxide (a) | 51-03-6 200-076-7 | > 7,000 mg / kg Oral - rat | Not established |
| (a) See Section 15 | | | |

SECTION 12 - ECOLOGICAL INFORMATION

This product is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water when disposing of equipment washwaters. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to 40 CFR 260 - 299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

SECTION 14 - TRANSPORT INFORMATION

| | |
|---|--|
| PROPER SHIPPING NAME: Non - Hazardous for Transport | IATA HAZARD CLASS / Packaging Group: Not regulated |
| DOT HAZARD CLASS / Packaging Group: Not regulated | IMDG HAZARD CLASS: Not regulated |
| REFERENCE: Not Applicable | RID / ADR Dangerous Goods Code: Not regulated |
| UN / NA IDENTIFICATION NUMBER: None | UN TDG Class / Packaging Group: Not regulated |
| LABEL: None Required | Hazard Identification Number (HIN): None |
| HAZARD SYMBOLS: None | |

Note: Transportation information provided is for reference only. Client is urged to consult 49 CFR 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories
Immediate health

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (USA - Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: D2B

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 3

VbK Index: A III

RISK PHRASES:

R22 Harmful if swallowed
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

SYMBOL(S) REQUIRED FOR LABEL

Harmful Environmental Hazard



SAFETY PHRASES:

S2 Keep out of the reach of children.
S24/25 Avoid contact with skin and eyes.

SECTION 16 - OTHER INFORMATION

Notes & full R-Phrase text

R11 Highly flammable.
R20/22 Harmful by inhalation and if swallowed.
R24 Toxic in contact with skin.

R36 Irritating to eyes.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

HMIS HAZARD RATINGS

| | | | |
|-------------------------------|---|-------------------------------|--------------|
| HEALTH | 2 | * = Chronic Health Hazard | 2 = MODERATE |
| FLAMMABILITY | 2 | 0 = INSIGNIFICANT | 3 = HIGH |
| PHYSICAL HAZARD | 0 | 1 = SLIGHT | 4 = EXTREME |
| PERSONAL PROTECTIVE EQUIPMENT | C | Safety Glasses, Gloves, Apron | |

REVISION SUMMARY:

This MSDS has been revised in the following sections:
No changes noted

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.