

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ultrashield<sup>®</sup> Red

GENERAL USE: Fly Repellent

EPA REGISTRATION: EPA Reg. No. 1543-1



PRODUCT DESCRIPTION: Slightly yellow liquid, characteristic insecticide odor

MANUFACTURER'S NAME:  
W. F. Young, Inc

DATE PREPARED: October 17, 2011  
SUPERSEDES September 30, 2011

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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

EMERGENCY TELEPHONE NUMBER:  
(413) 526-9999

## SECTION 2 – HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS     | %<br>(by weight) | CAS #      | EINECS #  | Hazard<br>Symbol | RISK PHRASES<br>Full Test Section 16 |
|--------------------------|------------------|------------|-----------|------------------|--------------------------------------|
| Isopropyl alcohol        | 7 – 13           | 67-63-0    | 200-661-7 | F, Xi            | R-11, 36, 67                         |
| Permethrin (a,b)         | 0.9              | 52345-53-1 | 258-067-9 | Xn, N            | R-20/22, 43, 50/53                   |
| Piperonyl Butoxide       | 1.0              | 51-03-6    | 200-076-7 | T, N             | R-24, 50/53                          |
| Pyrethrin                | 0.025            | 8003-34-7  | 232-319-8 | Xn, N            | R-20/21/22-50/53                     |
| Cypermethrin(a)<br>50/53 | 0.1              | 52317-07-8 | 257-842-9 | Xn, N            | R20/22, 37,                          |
| Tetramethrin             | 0.25             | 7696-12-0  | 231-711-6 | Xn,              | R20                                  |

(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 for this product – Xn Risk Phrase – R22.

Toxic to fish

Keep out of reach of children

### 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:** Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention. DO NOT attempt to neutralize with chemical agents.

**EYES:** Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; seek medical attention immediately.

**INGESTION:** If swallowed, call a physician or Poison Control Center immediately. Give one to two glasses of water or milk for dilution; DO NOT induce vomiting unless directed to do so by medical personnel; never give anything by mouth to an unconscious person; seek medical attention.

**SECTION 5 – FIRE FIGHTING MEASURES**

**GENERAL HAZARDS:**  
Product does not sustain combustion.

**EXTINGUISHING MEDIA:**  
Carbon dioxide, water, water fog, dry chemical, chemical foam

**FIRE FIGHTING PROCEDURES:**  
Self-contained respiratory equipment; Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
None

**HAZARDOUS COMBUSTION PRODUCTS:**  
Product does not sustain combustion

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Evacuate and ventilate area; confine and absorb into adsorbent; 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:** Keep this and other chemicals out of reach of children.

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**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

| HAZARDOUS COMPONENTS   | NIOSH   |                          |          |                        | ACGIH   |                          |          |                        |
|------------------------|---------|--------------------------|----------|------------------------|---------|--------------------------|----------|------------------------|
|                        | TWA ppm | TWA mg/m <sup>3</sup>    | STEL ppm | STEL mg/m <sup>3</sup> | TWA ppm | TWA mg/m <sup>3</sup>    | STEL ppm | STEL mg/m <sup>3</sup> |
| Isopropyl alcohol      | 400     | 980                      | 500      | 1225                   | 400     | 983                      | 500      | 1230                   |
| Permethrin (a,b)       |         | None                     |          |                        |         | None                     |          |                        |
| Piperonyl Butoxide (a) |         | None                     |          |                        |         | None                     |          |                        |
| Pyrethrins             |         | 5 mg/m <sup>3</sup> TWA  |          |                        |         | 5 mg/m <sup>3</sup> TWA  |          |                        |
| Cypermethrin           |         | 45 mg/m <sup>3</sup> TWA |          |                        |         | 45 mg/m <sup>3</sup> TWA |          |                        |
| Tetramethrin           |         | None established         |          |                        |         | None established         |          |                        |

**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, ANSI Z88.2, or European Standard EN 149 for complete regulations.

**PROTECTIVE GLOVES:** Neoprene or rubber gloves with cuffs.

**EYE PROTECTION:** Protective eyeglasses or chemical safety glasses recommended for general protection. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN 166.

**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.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |
|--|---|
| APPEARANCE AND ODOR<br>Slightly yellow liquid, characteristic insecticide odor | VAPOR PRESSURE<br>Not determined                            |
| SPECIFIC GRAVITY (WATER =1)<br>0.989 (g/ml)                                    | EVAPORATION RATE (WATER =1)<br><1                           |
| SOLUBILITY IN WATER<br>Complete  | pH<br>5.67  |
| BOILING POINT<br>212°F (100°C)   | VAPOR DENSITY (AIR = 1)<br>>1                               |
| FLASH POINT<br>99°F (37.2°C)   | FLAMMABLE LIMITS<br>LEL: Not applicable UEL: Not applicable |
| VISCOSITY<br>2.998 @20°C   | AUTOIGNITION TEMPERATURE<br>Not determined                  |

**SECTION 10- STABILITY AND REACTIVITY**

|   |  |
|---|--|
| STABILITY<br>UNSTABLE:<br>STABLE: X   | CONDITIONS TO AVOID: Extreme temperatures, open flame  |
| INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, potassium permanganate  |  |
| HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon and silicone, hydrocarbons, fumes or vapors, and smoke may be produced. |  |
| HAZARDOUS POLYMERIZATION<br>MAY OCCUR:<br>WILL NOT OCCUR: X   | CONDITIONS TO AVOID: Extreme temperatures, open flames |

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

| <b>Hazardous Ingredients</b> | <b>CAS #</b> | <b>EINECS #</b> | <b>LD50 of Ingredient Species and Route</b> | <b>LC50 of Ingredient Species</b>   |
|------------------------------|--------------|-----------------|---|-------------------------------------|
| Isopropyl alcohol            | 67-63-0      | 200-661-7       | 5840 mg/ kg<br>Oral - rat                   | 22,500 ppm / 4H<br>Inhalation - rat |
| Permethrin (a,b)             | 52645-53-1   | 258-067-9       | 6,000 mg/kg<br>Oral - rat                   | 2.3 mg / L<br>Inhalation - rat      |
| Piperonyl Butoxide (a)       | 51-03-6      | 200-076-7       | 4,300 mg / kg<br>Oral - rat                 | >5 mg/L<br>Inhalation - rats        |
| Pyrethrins                   | 8003-34-7    | 232-319-8       | >5,000 mg/kg<br>rats                        | >5 mg/L<br>Inhalation - rats        |
| Cypermethrin(a)              | 52317-07-8   | 257-842-9       | 661 mg/kg<br>Female rat                     | 0.53-2.06 mg/L<br>Inhalation - rats |
| Tetramethrin                 | 7696-12-0    | 231-711-6       | >5,000 mg/kg<br>rats                        | >2.37 mg/m<br>rats                  |
|                              |              |                 |   |                                     |
| (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 application site. Do not contaminate water when disposing of equipment washwaters.

**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**

Ground: Non-hazardous for Transport

Ocean: Non-hazardous for Transport (NOTE: Cypermethrin is &lt;1%)

Air: Non-hazardous for Transport

NOTE: Transportation information provided is for reference only. User 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 (Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substance 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 (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 (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 Substance List)**

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substance 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

**SECTION 15 – REGULATORY INFORMATION, continued**

**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

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**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 Vapors may cause drowsiness and dizziness

**HMIS HAZARD RATINGS**

**HEALTH**

**2**

**\*=Chronic Health Hazard 2=Moderate**

**FLAMMABILITY**

**1**

**0=Insignificant 3=High**

**PHYSICAL HAZARD**

**0**

**1=Slight 4=Extreme**

**PERSONAL PROTECTIVE EQUIPMENT**

**C Safety glasses, Gloves, Apron**

**REVISION SUMMARY:**

**MSDS Prepared by:**

**Corporate QA  
W. F. Young, Inc  
302 Benton Drive  
East Longmeadow, MA 01028**

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.