

**Lilly Miller Brands**  
1340 Treat Blvd., Suite 650  
Walnut Creek, CA 94597  
October, 2007

## MATERIAL SAFETY DATA SHEET

For Concentrate Worry Free® Brand Weed & Grass Killer  
(EPA Reg. No. 82052-1-33116)

**Emergency Phone Number:**  
(678) 546-5009

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### Section 1 – IDENTIFICATION

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Product Name: Concentrate Worry Free® Brand Weed & Grass Killer

<b>Section 2 – INGREDIENT INFORMATION</b>
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d-Limonene (technical grade): 74 to 78% (CAS Number: 5989-27-5)  
Castor Oil: 1 to 4%  
Emulsifiers: 18 to 23%

<b>Section 3 – HEALTH HAZARDS IDENTIFICATION</b>
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**Health Hazards:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

**Signs and Symptoms of Exposure:** Product may be irritating to the skin, eyes, nose and throat.

**Medical Conditions Generally Aggravated by Exposure:** Persons with allergies or pre-existing skin conditions should avoid contact with this product.

**Emergency & First Aid Procedures :**

**Eyes:** Remove contact lenses at once. Flush with water for at least 15 minutes.

**Skin:** Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

**Ingestion:** Seek medical attention immediately. Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Do not leave victim unattended. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.

**Inhalation:** If symptoms of overexposure are experienced, evacuate to fresh air.

**If any symptoms persist, seek medical attention.**

The toxicity parameters of the primary ingredient, d-Limonene, are as follows:

It is not acutely toxic.

Oral: LD50 >5 g/kg, rabbit

Dermal: LD50 >5 g/kg, rabbit

Skin: The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively.

Inhalation: LC50 >1000 ppm

Hazardous Materials Identification System - HMIS:

- 1 Health Hazard - Mild skin irritant
- 2 Flammability - Flashpoint 122° F (50°C), as determined by TAG Closed Cup
- 0 Reactivity - Stable
- G Protection - Safety glasses, gloves

This substance contains no materials subject to the reporting requirements of SARA TITLE III SECTION 313.

Chronic Toxicity: Not listed as a carcinogen (OSHA, NTP, IARC, or ACGIH)  
Ecotoxicological Information: Product may be toxic to aquatic organisms.

#### Section 4 –PHYSICAL DATA

Appearance: Clear, colorless liquid  
Odor: Orange or lemon-lime aroma  
Specific Gravity: 0.854 g/ml (53.3 lb/ cu. ft.) at 68°F (20°C )  
Flashpoint: 122°F (50°C), as determined by TAG Closed Cup  
pH: aqueous mixture containing 1% v/v of Concentrate has a pH of 4.8 at 73°F (23°C)  
Viscosity: 1.50 at 23°C

#### Section 5 – FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 126°F (52°C)  
**Extinguishing Media:** Carbon dioxide, foam or dry chemical  
**Special Fire Fighting Procedures:** SCBA recommended. Smother to exclude air. Do not use water. Handle as an oil fire.  
**Unusual Fire and Explosive Hazards:** Combustible liquid. Keep away from heat, sparks, and open flame.  
**Hazardous Decomposition Materials:** Smoke may be acrid and the fumes may be irritating. Burning generates CO, CO<sub>2</sub>, and smoke.  
**Conditions to Avoid for Stability:** Avoid temperatures over 122° F (50°C)

#### Section 6 – SPILL OR LEAK PROCEDURES

**Steps to be Taken if Material is Released or Spilled:** Use protective gloves to avoid skin contact. Small spills can be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal.

#### Section 7 –SPECIAL PROTECTION INFORMATION

Eye Protection: Safety goggles or glasses suggested.  
Skin Protection: Oil resistant gloves.  
Appropriate Hygienic Practices: Wash thoroughly after handling. Launder contaminated clothing before re-use.

#### Section 8 – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Usual precautions for combustible liquids.

**Section 9 – REGULATORY INFORMATION**

Registration for use as a herbicide has been approved at the U.S. Environmental Protection Agency (EPA). EPA Registration No. 82052-1-33116.

**Section 10 – TRANSPORTATION INFORMATION**

TDG Status: Hazardous DOT Label/Placard [exemption § 173.150(f) applies:  
IMO Status: Hazardous Highway/Rail: per requirements for Combustible Liquids  
IATA Status: Hazardous Air/Ship: per requirements for Flammable Liquids

**SHIPPING CLASSIFICATION:**

Proper Shipping Name: TERPENE HYDROCARBONS, N.O.S.

Hazard Class: 3

Identification No.: UN2319

Packing Group: III

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

**Section 11 – ADDITIONAL INFORMATION**

National Fire Protection Association Hazard Ratings - NFPA(R):

- 1 Health Hazard - Slight
- 2 Flammability - Moderate
- 0 Reactivity - Minimal

Key Legend Information:

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety and Health Administration

NTP National Toxicology Program

IARC International Agency for Research on Cancer 4

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