

Material Safety Data Sheet  
May be used to comply with  
Administration  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be consulted  
for specific requirements.

U.S Department of Labor  
Occupational Safety and Health

(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)  
**Surrender ® brand Termite Killer II**

**EPA Reg. No. 4-349-53883**  
Date: October 12, 2000

### Section I – Company Information

Control Solutions, Inc. (800) 424-9300  
5903 Genoa-Red Bluff (281) 892-2500  
Pasadena, TX 77507-1041

### Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s) (Optional)	OSHA PEL	ACGIH TLV	Other Limits	%
Permethrin 52645-53-1	None	None	None	13.3

### Section III - Physical/Chemical Ingredients

ODOR: Faint, mild  
pH: 5.0-6.0  
MELTING POINT: Not Available  
APPEARANCE: Viscous yellow to brown liquid  
SOLUBILITY (H<sub>2</sub>O): 0.07 + 0.02 ppm  
VAPOR DENSITY: >1 (Air=1)  
% VOLATILES: NA  
SPECIFIC GRAVITY: 0.915 to 0.935 to at 20°C  
BOILING POINT: 198-200°C at 0.3 mm HG  
VAPOR PRESSURE: 3.4 x 10 Torr at 25°C

### Section IV - Fire and Explosion Data

FLASHPOINT: >105°F (closed cup)  
FLAMMABILITY LIMITS: UFL: N/A LFL: N/A  
EXTINGUISHING MEDIA: Water fog, foam  
DEGREE OF FIRE/EXPLOSION HAZARD: Slightly combustible. Overheated, sealed containers are an explosion hazard. Vapors which form inside empty containers may also present an explosion hazard during a fire.  
SPECIAL FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind residents and all areas where fire seriously threatens the product containers. Wear full protective clothing including rubber boots, neoprene gloves and self-contained breathing apparatus. Attempt to keep drums cool. Do not breathe or contact smoke or vapors. CONDITIONS TO AVOID (INCOMPATIBILITY): Heat and fire. Thermal decomposition and burning may produce toxic by-products and an explosion hazard. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and/or carbon dioxide. Chlorine and hydrogen chloride may be formed.

### Section V - Reactivity Data

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur

## **Section VI - Health Hazard Information**

**PRIMARY ROUTES OF ENTRY:** Acute and chronic effects from overexposure may result from inhalation and ingestion.

**ACUTE EFFECTS FROM OVEREXPOSURE:** Data available to date on human exposure suggests that permethrin does not produce skin sensations (feelings of numbing and tingling), although other pyrethroids have been known to cause these reactions. If they occur, these sensations subside and disappear within a few hours. Large, toxic doses administered to laboratory animals have produced central nervous system effects with symptoms that include diarrhea, salivation, bloody nose, tremors and intermittent convulsions.

Overexposure of animals to permethrin via inhalation has also produced hyperactivity and hypersensitivity.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** In studies with laboratory animals, permethrin did not cause reproductive toxicity or teratogenicity. Analysis of chronic feeding studies in both mice and rats with permethrin resulted in the conclusion that permethrin's potential for induction of oncogenicity in experimental animals is low and that the likelihood of oncogenic effects in humans is nonexistent or extremely low. Long terms feeding studies in animals resulted in increased liver and kidney weights, induction of the liver microsomal drug metabolizing enzyme system and histopathological changes in the lungs and liver. An overall lack of genotoxicity has been demonstrated in mutagenicity testing with permethrin.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None presently known

**CARCINOGENICITY:** NTP: No

IARC: No

OSHA: No

## **Section VII - Precautions for Safe Handling/**

**FIRST AID: EYES:** Flush with water for at least 15 minutes. If irritation persists, obtain medical attention.

**SKIN:** Remove contaminated clothing and wash with soap and water immediately. Obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing is difficult or if any discomfort persists, obtain medical attention.

**INGESTION:** Drink one or two glasses of water and induce vomiting by touching the back of the throat with a finger or by administering syrup of ipecac. Obtain medical attention. Do not induce vomiting or give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Pounce Technical contains the Pyrethroid insecticide permethrin and has low oral toxicity, moderate dermal toxicity and moderate eye irritation. Initial treatment is removal of exposure by washing, emesis or lavage and is followed by symptomatic and supportive care.

**PROTECTIVE REQUIREMENTS:**

**VENTILATION:** Thoroughly ventilate all transport vehicles prior to unloading. Store in a cool, dry, well-ventilated place. General exhaust ventilation is considered sufficient.

**WORK CLOTHING:** Wear long-sleeved coveralls or uniform, cap, safety shoes and neoprene gloves.

**EYE PROTECTION:** Where potential of splashing exists, or contact with mist, protective goggles and face shield should be worn. A source of clean water for flushing the eyes should be nearby.

**RESPIRATORY PROTECTION:** For fires, use self-contained breathing apparatus only. For moderate vapor liquid mist exposure, use half face or full-face air purifying respirators which are NIOSH/MSHA approved for pesticides.

**GLOVES:** Where chemical protective gloves made of neoprene when handling this product.

## **Section VIII - Environmental and Disposal Information**

**STORAGE AND HANDLING:** Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace bungs and close tightly. Store in original containers only. Wash hands and other exposed skin surfaces prior to smoking or consuming food or beverages. Shower after handling or applying the product. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

**SPILL OR LEAK:** Isolate and post spill area. Wear prescribed protective clothing and equipment. Keep material out of streams and sewers. Contain and absorb spilled material with a solid absorbent such as sand, cat litter, commercial clay or other suitable absorbent. Place in an approved drum and dispose of

material following the method outlined below under "Waste Disposal". To decontaminate spill area, tools and equipment, wash with a suitable solution (e.g. organic solvent, detergent, bleach or caustic) and dispose of solution following the method outlined below under "Waste Disposal".

WASTE DISPOSAL: Open dumping or burning of this material is prohibited. An acceptable method of disposal is to burn in an incinerator in accordance with all local, state and federal environmental laws, rules, standards and regulations. Because acceptable methods of disposal may vary by location and because regulatory requirements may change, the appropriate regulatory agencies should be contacted prior to disposal. Steel containers which contained these materials must be crushed and disposed of in a sanitary landfill. Do not cut or weld steel containers.

**KEEP OUT OF REACH OF CHILDREN**

**SHIPPING INFORMATION**

Insecticide Liquid O/T Agricultural NOIBN  
(Not currently regulated by D.O.T.)

**ABBREVIATION KEY**

N/A: NOT AVAILABLE OR APPLICABLE  
N/E: NOT ESTABLISHED  
ND: Not Determined  
TLV: THRESHOLD LIMIT VALUE  
TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY  
STEL: SHORT TERM EXPOSURE LIMIT  
D.O.T.: DEPARTMENT OF TRANSPORTATION

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.