

A company of **Hoechst** and **Schering, Berlin**

## **PERMANONE READY- TO-USE INSECTICIDE**

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**AgEvo Environmental Health**  
**95 Chestnut Ridge Road**  
**Montvale, NJ 07645**

**COMPANY CONTACT:** *Regulatory Dept.*  
**TELEPHONE NUMBER:** *(800)438-5837*

**EMERGENCY TELEPHONE NUMBER**  
*(800)471-0660*

**PRODUCT NAME :** *PERMANONE READY- TO-USE INSECTICIDE*  
**PRODUCT CODE:** *E72652*  
**CHEMICAL FAMILY:** *Mixture*  
**CHEMICAL FORMULA:** *Mixture*  
**EPA REGISTRY NUMBER:** *4816-755*  
**MSDS IDENTIFICATION CODE/NUMBER:** *4816755*

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION PERCENT BY WEIGHT
Permethrin CAS NUMBER: 52645-53-1	None established	≈ 3.98
Piperonyl butoxide CAS NUMBER: 51-03-6	Nom established	≈ 8.48
Petroleum distillate	Nom established	> 80.0

### SECTION 3. HAZARDS IDENTIFICATION

\*\*\*\*\* **EMERGENCY OVERVIEW** \*\*\*\*\*  
**Health:** *Harmful* if absorbed. Avoid contact with eyes, skin or clothing.  
*Wash thoroughly with soap and water after handling.*

**Environmental:** *This pesticide is highly toxic to fish and bees.*  
 \*\*\*\*\*

#### POTENTIAL HEALTH EFFECTS

**PRIMARY ROUTE(S) OF ENTRY**  
*Skin contact*

**EYES**  
*Minimally irritating.*

**SKIN**  
*Slightly irritating. Harmful if absorbed.*

**CHRONIC (CANCER INFORMATION)**  
*Permethrin produced an increased incidence of lung and liver tumors in female mice at elevated dietary concentrations.*

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### **SECTION 4. FIRST AID MEASURES**

#### **EYES**

*Flush* eyes with plenty of water for **at least 15 minutes**. Get medical attention if irritation persists.

#### **SKIN**

*Remove all contaminated clothing*. Wash with plenty of soap and water. Get medical attention if irritation persists.

#### **INGESTION**

*Contact a Physician or Poison Control Center*. This product contains petroleum solvent. Aspiration may be a hazard.

#### **INHALATION**

*Remove to fresh air*. If breathing is difficult w if discomfort persists, obtain medical attention.

#### **NOTE TO PHYSICIAN**

*This product contains a pyrethroid and a petroleum solvent*. If ingested and vomiting has not occurred, emesis should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

*Do not administer milk, cream or other substances containing vegetable or animal fats*. These only enhance absorption of lipophilic substances.

### **SECTION 5. FIRE FIGHTING MEASURES**

#### **FLAMMABLE PROPERTIES**

**FLA. POIN : 115°F 46°C TCC**

#### **FIRE AND EXPLOSION HAZARDS**

*Do not use or store near heat or open flame*.

#### **EXTINGUISHING MEDIA**

*Carbon Dioxide, Dry Chemical, Foam, or Water*.

#### **FIRE FIGHTING INSTRUCTIONS**

*As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear*.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

*Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste*.

### **SECTION 7. HANDLING AND STORAGE**

#### **HANDLING PRECAUTIONS**

*Avoid contact with eyes, skin or clothing*.

#### **STORAGE PRECAUTIONS**

*Store upright at room temperature*. Avoid exposure to extreme temperatures.

#### **WORK/HYGIENIC PRACTICES**

*Wash thoroughly with soap and water after handling*.

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### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **EYE/FACE PROTECTION**

*Safety glasses or goggles.*

#### **SKIN PROTECTION**

*Impervious gloves.*

#### **RESPIRATORY PROTECTION**

*Wear NIOSH-approved dust respirator in poorly ventilated areas.*

#### **OTHER/GENERAL PROTECTION**

*Long sleeves and pants to prevent skin contact contact.*

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **APPEARANCE**

*Golden amber liquid.*

#### **ODOR**

*Mild aromatic odor.*

#### **BASIC PHYSICAL PROPERTIES**

**PHYSICAL STATE:** *Liquid*

**SPECIFIC GRAVITY:** *0.87*

**SOLUBILITY (H<sub>2</sub>O):** *Insoluble*

### **SECTION 10. STABILITY AND REACTIVITY**

**STABILITY :** *Stable*

#### **CONDITIONS TO AVOID (STABILITY)**

*Ignition sources, excessive heat.*

#### **INCOMPATIBLE MATERIALS**

*Strong oxidizing and reducing agents.*

**HAZARDOUS POLYMERIZATION:** *Will not occur*

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **ACUTE STUDIES**

*Data from previous MSDS dated from 3/1/92*

*Symptoms observed in studies with laboratory animals exposed at or near the LD<sub>50</sub>/LC<sub>50</sub> included increased urination, decreased activity, nasal discharge, salivation, bulging eyes and erect body hair. Extremely high doses have causes convulsions.*

#### **EYE EFFECTS**

*Minimally irritating*

#### **SKIN EFFECTS**

*Irritation: Slightly irritating*

*Absorption: LD<sub>50</sub> > 2,020 mg/kg*

*Sensitization: Non-sensitizing*

#### **ACUTE ORAL EFFECTS**

*LD<sub>50</sub> > 5,050 mg/kg*

#### **ACUTE INHALATION EFFECTS**

*4 - Hour LC<sub>50</sub> > 5.22 mg/L*

*1-Hour equivalent LC<sub>50</sub> > 20.88 mg/L (for DOT purposes)*

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### **SECTION 11. TOXICOLOGICAL INFORMATION - Continued**

#### **CHRONIC (CANCER INFORMATION)**

*A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin over 85 weeks.*

**CARCINOGENICITY:** NTP: No IARC: No OSHA: No

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **OTHER ENVIRONMENTAL INFORMATION**

*This product is highly toxic to fish. Avoid direct application to lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent areas. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Apply this product only as specified on its label.*

*This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are actively visiting treatment area.*

*Do not allow spray treatment to drift on pastureland, cropland, poultry ranges or water supplies. Do not use on crops for food, forage or pasture.*

### **SECTION 13. DISPOSAL CONSIDERATION&**

*Pesticide Disposal : ; Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.*

*Containers One Gallon and Smaller: Do not reuse empty container. Wrap container in several layers of newspaper and discard in trash.*

*Containers Larger than One Gallon:*

*Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.*

*Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, if allowed by state and local authorities, by burning. If burned stay out of smoke. Then dispose of in a sanitary landfill or by other approved State and local procedures.*

### **SECTION 14. TRANSPORT INFORMATION**

**PROPER SHIPPING NAME:** *Flammable Liquids, n.o.s.  
(Petroleum distillate)*

**HAZARD CLASS:** 3, PG III

**DOT IDENTIFICATION NUMBER:** UN1993

**DOT SHIPPING LABEL:** *Flammable liquid.*

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**SECTION 15. REGULATORY INFORMATION**

**SARA TITLE III NOTIFICATIONS AND INFORMATION**

**SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION**

*This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:*

<u>CAS NUMBER</u>	<u>INGREDIENT NAME</u>	<u>PERCENT BY WEIGHT</u>
52645-53-1	Permethrin	= 3.98
51-03-6	Piperonyl butoxide	= 8.48

*This information must be included on all MSDSs that are copied and distributed for this material.*

**REGULATED INGREDIENTS**

**INGREDIENT:** Permethrin

**CAS NUMBER:** 52645-53-1

**PERCENT BY WEIGHT:** = 3.98

Regulations: Massachusetts Hazardous Substance  
New Jersey Workplace Hazardous Substance  
SARA Section 313 Toxic Chemical

**INGREDIENT:** Piperonyl butoxide

**CAS NUMBER:** 51-03-6

**PERCENT BY WEIGHT:** = 8.48

Regulations: SARA Section 313 Toxic Chemical

**SECTION 16. OTHER INFORMATION**

**HMIS HAZARD RATING** - HEALTH: 1 Slight  
- FIRE: 2 Moderate  
- REACTIVITY: 1 Slight  
- PROTECTION: B

**NFPA HAZARD RATING** - HEALTH: 1 Slight  
- FIRE: 2 Moderate  
- REACTIVITY: 1 Slight  
- SPECIAL:

**MSDS IDENTIFICATION CODE/NUMBER:** 4816755

**PREPARED BY:** Regulatory Department      **PHONE:** (800)438-5837

**DATE AND TIME OF PRINTING:** 06/26/95 10:02:20

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

*Our recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility including injury and damage resulting from misuse as such, of in combination with other materials.*