

A company of Hoechst and Schering, Berlin

PERMANONE 3 1-66**SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 09645COMPANY CONTACT: *Regulatory Dept.*
TELEPHONE NUMBER: *(800)438-5837***EMERGENCY TELEPHONE NUMBER**
*(800)471-01*PRODUCT NAME: **PERMANONE 31-66**
PRODUCT CODE: *E72682KF*
CHEMICAL FAMILY: *Mixture*
CHEMICAL FORMULA: *Mixture*
EPA REGISTRY NUMBER: 4816-740
MSDS IDENTIFICATION CODE/NUMBER: *E72682KF***SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION PERCENT BY WEIGHT
Permethrin CAS NUMBER: 52645-53-1	None established	= 31.20
Piperonyl butoxide CAS NUMBER: 51-03-6	None established	= 66.0

SECTION 3. HAZARDS IDENTIFICATION***** **EMERGENCY OVERVIEW** *****

Health: Harmful if swallowed, absorbed through skin or inhaled.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing vapors. Wash thoroughly with soap and water after handling.

Environmental: This product is extremely toxic to fish and aquatic invertebrates and highly toxic to bees.

POTENTIAL HEALTH EFFECTS**PRIMARY ROUTE(S) OF ENTRY***Ingestion, inhalation, and skin contact.***EYES***Mildly irritating.***SKIN***Harmful if absorbed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Slightly irritating.***INGESTION***Harmful if swallowed.***INHALATION***Harmful if inhaled.*

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SECTION 3. HAZARDS IDENTIFICATION - Continued

CHRONIC (CANCER INFORMATION)

Permethrin produced an increased incidence of lung and liver tumors in female mice at elevated dietary concentrations.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known.

SECTION 4. FIRST AID MEASURES

EYES

Flush eyes with plenty of water. Get medical attention if irritation persists.

SKIN

Wash with plenty of soap and water and get medical attention.

INGESTION

Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

INHALATION

Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

NOTE TO PHYSICIAN

This product contains a pyrethroid. If a small amount is ingested (or if treatment is delayed) oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy.

Do not administer milk, cream or other substances containing vegetable or animal fats, which enhance the absorption of lipophilic substances.

SECTION 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: > 200°F > 93°C TCC

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.

SECTION 7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Avoid contact with skin, eyes or clothing. Avoid breathing vapors.

STORAGE PRECAUTIONS

Do not store at temperatures below 40°F (4.5°C). If this material has been exposed to temperatures below 40°F (4.5°C) there may be precipitation. Check for crystallization. If evident, warm to 80°F (26.5°C) and thoroughly mix

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SECTION 7. HANDLING AND STORAGE - Continued

STORAGE PRECAUTIONS - Continued
before using. DO NOT USE OPEN FLAME.

WORK/HYGIENIC PRACTICES
Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION
Safety glasses or goggles.

SKIN PROTECTION
Impervious gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Thick, dark amber liquid.

ODOR
Mild sassafras-type odor.

BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: *Liquid*
SPECIFIC GRAVITY: *1.111*
SOLUBILITY (H₂O): *Insoluble*

DENSITY: *9.23 lbs/gal*

SECTION 10. STABILITY AND REACTIVITY

STABILITY: *Stable*

INCOMPATIBLE MATERIALS
Strong oxidizing agents.

HAZARDOUS POLYMERIZATION : *Will not occur*

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES

Acute toxicity data from Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 48 16-713, which contains 3 1% permethrin and 66% piperonyl butoxide.

EYE EFFECTS
Tox Category III; Mildly irritating

SKIN EFFECTS
Irritation: Slightly irritating
Absorption: *LD50 > 2,020 mg/kg*
Sensitization: *Sensitizing*

ACUTE ORAL EFFECTS
LD50 = 1250 mg/kg

ACUTE INHALATION EFFECTS

4-Hour LC50 > 4.399 mg/L
1-Hour equivalent LC50 > 17.56 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 over 85 weeks.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

SECTION 12. ECOLOGICAL INFORMATION

OTHER ENVIRONMENTAL INFORMATION

This product is extremely toxic to fish and aquatic organisms. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not apply when weather conditions favor drift from areas treated. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Do not apply when wind speeds exceed 10 mph.

This product is highly toxic to bees exposed to direct treatment or residues remaining on the treated areas. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide maximum possible interval between treatment and the next period of bee activity.

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: *Not DOT regulated*

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	= 0.0
51-03-6	Piperonyl butoxide	= 66.0

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

REGULATED INGREDIENTS

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SECTION 15. REGULATORY INFORMATION - Continued

REGULATED INGREDIENTS - Continued

INGREDIENT: ~~Permethr~~ in
CAS NUMBER: 52645-53-1
PERCENT BY WEIGHT: = 31.28
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: = 66.0
Regulations: SARA Section 313 Toxic Chemical

SECTION 16. OTHER INFORMATION

HMIS HAZARD RATING - HEALTH: 1 Slight
- FIRE: 2 Moderate
- REACTIVITY: 0 Negligible
- PROTECTION: B

NFPA HAZARD RATING - HEALTH: 1 Slight
- FIRE: 2 Moderate
- REACTIVITY: 0 Negligible
- SPECIAL:

MSDS IDENTIFICATION CODE/NUMBER: E72682KF

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

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DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Buyer assumes all responsibility for safety and use, not in accordance with directions.