

# Material Safety Data Sheet

MSDS Number: 1704

**PERMANONE 30-30** MSDS Version 1.0

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## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** PERMANONE 30-30

**Chemical Name**

**Synonym**

**MSDS Number** 1704

**Chemical Family** Mixture

**Chemical Formulation** Mixture

**EPA Registration No.** 432-1235

**Canadian Registrat. No.**

Aventis

95 Chestnut Ridge Road

Montvale, NJ 07645

USA

For Product Use Information: (800)331-2867 Monday through Friday

8:00AM-4:30PM

For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day

For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

**Product Use Description** Permanone 30-30 ULV is recommended for application as an Ultra Low Volume

(U.L.V.) nonthermal aerosol (Cold Fog) to control adult mosquitoes, biting and non-biting midges and blackflies in residential and recreational areas.

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Component Name CAS No. Concentration % by Weight**

**Minimum Maximum**

Permethrin 52645-53-1 30.0000

Piperonyl butoxide 51-03-6 30.0000

Inert ingredients 40.0000

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## SECTION 3. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** CAUTION. KEEP OUT OF REACH OF CHILDREN

**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.

**Physical State** liquid

**Odor** Mild sassafrass-type

**Appearance** Thick, dark amber

**Routes of Exposure** Ingestion, inhalation, and skin contact.

**Immediate Effects**

**Eye** Causes moderate eye damage injury.

**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.

**Chronic or Delayed**

**Long-Term**

See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide and permethrin.

## **Medical Conditions**

### **Aggravated by Exposure**

None known.

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

**Eye** Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Ingestion** Call a Poison Control Center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Note to Physician** Have the product container or label with you when calling a poison control center

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or doctor or going for treatment.

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**

**Flash Point** 129 °C / 264 °F

TCC

### **Suitable 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**

**General and Disposal** Soak up with an absorbent material such as sawdust or fuller's earth, sweep up

and place in a labeled container.

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

**Handling Procedures** Avoid contact with skin, eyes or clothing. Avoid breathing vapors or spray mist.

**Storing Procedures** Do not contaminate water, food or feed by storage or disposal.

Do not use, pour, spill or store near heat or open flame.

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 crystalization. If evident, warm to 80°F (26.5°C) and thoroughly mix before using. **DO NOT USE OPEN FLAME.**

Store product in its original container in a cool, dry, locked place designated for such insecticides and out of reach of children. Avoid exposure to extreme temperatures.

### **Work/Hygienic**

#### **Procedures**

Wash thoroughly with soap and water after using and before eating or smoking.

Remove contaminated clothing and wash before reuse.

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

**Eye/Face Protection** Safety glasses or goggles.

**Body Protection** Impervious gloves.

**Exposure Limits** None Established

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

**Appearance** Thick, dark amber

**Physical State** liquid

**Odor** Mild sassafrass-type

**Bulk Density** 8.1837 lbs/gal

**Solubility (in water)** insoluble

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

**Chemical Stability** Stable

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**Incompatibility** Strong oxidizing agents.

**Hazardous**

**Polymerization**

**(Conditions to avoid)**

Will not occur

## **SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute Oral Toxicity** LD50 rat 1,250 mg/kg

This data was obtained using Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

LD50 rat (female) 396 mg/kg

This data was obtained using Permethrin, the active ingredient.

**Acute Dermal Toxicity** LD50 rat 2,020 mg/kg

This data was obtained using Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

LD50 rat (male) > 5,176 mg/kg

This data was obtained using Permethrin, the active ingredient.

LD50 rat (female) > 4,000 mg/kg

This data was obtained using Permethrin, the active ingredient.

**Acute Inhalation Toxicity** LC50 rat 4.39 mg/l

(4.0 h)

This data was obtained using Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

LC50 rat 17.56 mg/l for DOT purposes

(1.0 hr)

This data was obtained using Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

**Skin Irritation** rabbit Slightly irritating

This data was obtained using Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

**Eye Irritation** rabbit Tox Category III Mildly irritating

This data was obtained using Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

**Sensitization** guinea pig Sensitizing

This data was obtained using Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

**Chronic Toxicity** 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 technical over 85 weeks.

A statistically significant increase in the number of benign liver tumors appeared in mice fed piperonyl butoxide technical at doses which far exceed any anticipated daily human intake. Independent and industry toxicological experts who have reviewed the data agree that the findings of the study do not indicate a health risk to human beings.

**Assessment Carcinogenicity**

**ACGIH**

None

**NTP**

None

**IARC**

Permethrin 52645-53-1

Piperonyl butoxide 51-03-6

**OSHA**

None

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental**

**Precautions**

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.

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

Do not apply when winds speeds exceed 10 mph.

**Environmental Fate** This data was obtained using Permethrin, the active ingredient.

Log P: 6.10

Soil Absorption Koc: 277000

Hydrolysis HL, days: Stable (pH 5 and pH 7); 242 (pH 9)

Photolysis HL, days: 110 (water); 104 (soil)

Soil Deg HL, days: 39.5 (Aerobic); 197 (Anaerobic)

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal**

**Guidance**

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

**Container Disposal** CONTAINERS ONE GALLON OR SMALLER:

Do not reuse container. Wrap containers in several layers of newspaper and discard in trash.

CONTAINERS LARGER THAN ONE GALLON

(Metal) Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other approved State and Local procedures.

(Plastic) Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

**SECTION 14. TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Not DOT regulated

**SECTION 15. REGULATORY INFORMATION**

**US Federal**

**EPA Registration No.** 432-1235

**TSCA list**

Piperonyl butoxide 51-03-6

**TSCA 12b export notification**

None

**SARA Title III - section 302 - notification and information**

None

**SARA Title III - section 313 - toxic chemical release reporting**

Permethrin 52645-53-1 1.0%

Piperonyl butoxide 51-03-6 1.0%

**US States Regulatory**

**CA Prop65**

This product contains a chemical known to the state of California to cause cancer.

None

This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

None

**US State right-to-know ingredients**

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Permethrin 52645-53-1 NJ

Piperonyl butoxide 51-03-6 NJ

**Canadian Regulations**

**Canadian Registrat. No.**

**Canadian Domestic Substance List**

Piperonyl butoxide 51-03-6

**Environmental**

**CERCLA**

None

**Clean Water Section 307 Priority Pollutants**

None

**Safe Drinking Water Act Maximum Contaminant Levels**

None

**International Regulations**

**EU Classification**

None

**European Inventory of Existing Commercial Substances (EINECS)**

Permethrin 52645-53-1

Piperonyl butoxide 51-03-6

**SECTION 16. OTHER INFORMATION**

Health Flammability Reactivity Others

HMIS12 0 B

NFPA 1 2 0

REVISED SECTIONS: New MSDS.

Print Date: 01/08/2002

Supersedes MSDS, which is older than: 10/24/2001

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