



PERMANONE 30-30

MSDS Version 1.1

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.

Bayer Environmental Science
 95 Chestnut Ridge Road
 Montvale, NJ 07645
 USA

For Product Use Information: (800)331-2867 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF) For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF) 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

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
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

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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 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 crystallization. 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

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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 Rat: LD50: 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.

rat (female) LD50: 396 mg/kg
This data was obtained using Permethrin, the active ingredient.

Acute Dermal Toxicity Rat: LD50: 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.

rat (male) LD50: > 5,176 mg/kg
This data was obtained using Permethrin, the active ingredient.

rat (female) LD50: > 4,000 mg/kg
This data was obtained using Permethrin, the active ingredient.

Acute Inhalation Toxicity Rat: LC50: 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.

Rat: LC50: 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

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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

3

Piperonyl butoxide

51-03-6

3

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.

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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.

RCRA Classification

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

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CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State right-to-know ingredients

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
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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

REVISED SECTIONS:

MSDS REVISION INDICATOR: Company name change.

Print Date: 12/11/2002

Supersedes MSDS, which is older than: 12/10/2002

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