



PERMANONE 31-66

MSDS Version 1.3

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name PERMANONE 31-66
Chemical Name
Common Name
MSDS Number 124
Chemical Family Mixture
Chemical Formulation
EPA Registration No. 432-1250

Bayer Environmental Science
 2 T.W. Alexander Drive
 Research Triangle PK, NC 27709
 USA

For MEDICAL, TRANSPORTATION or Other EMERGENCY call 1-800-334-7577 24 hours/day
 For Product Information call 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Permethrin	52645-53-1	31.2800	
Piperonyl butoxide	51-03-6	66.0000	

SECTION 3. HAZARDS IDENTIFICATION

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

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.

Odor Mild sassafrass-type

Routes of Exposure Ingestion, inhalation, and skin contact.

Immediate Effects
Eye Mildly irritating.

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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.

SECTION 4. FIRST AID MEASURES

Eye	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.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	> 93 °C / > 199 °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 sand, sawdust, earth, fuller's earth, etc.
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SECTION 7. HANDLING AND STORAGE

Handling Procedures	Avoid contact with skin, eyes or clothing. Avoid breathing vapors.
Storing Procedures	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

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

Work/Hygienic Procedures

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.

Body Protection Impervious gloves.

Exposure Limits

None Established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor Mild sassafrass-type

Specific Gravity 1.11

Density 9.23 lbs/gal

Solubility (in water) Insoluble

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable

Incompatibility Strong oxidizing agents.

Hazardous Polymerization (Conditions to avoid) Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

The above acute toxicity data from Permanone 31% Butacide 66% Manufacturing Concentrate; EPA Reg. No. 432-1150, which contains 31% permethrin and 66% piperonyl butoxide.

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Acute Oral Toxicity Rat: 1,250 mg/kg

Acute Dermal Toxicity Rat: 2,020 mg/kg

Acute Inhalation Toxicity Rat: 4.39 mg/l (4.0 h)
Rat: 17.56 mg/l (1.0 hr)

Skin Irritation Rabbit: Slightly irritating.

Eye Irritation Rabbit: Tox Category III Mildly irritating.

Sensitization Guinea pig: Sensitizing

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. 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

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bees are actively visiting the treatment area. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Pesticide Disposal: Wastes resulting from the 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 incineration or, if allowed by State and Local authorities, by burning.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT regulated

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1250

US Federal Regulations

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 Reporting

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

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Canadian Regulations

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

REASON FOR REVISION: Company address change.

Revision Date: 06/06/2006

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