



MSDS Number: 000000002147

PERMANONE® Multi-Purpose 10% EC

MSDS Version 0.0

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	PERMANONE® Multi-Purpose 10% EC
Chemical Name	Mixture; active ingredient, permethrin
Common Name	
MSDS Number	2147
Chemical Family	
Chemical Formulation	
PCP Registration No.	26476
Product Use	Permanone 10% E.C. is a broad spectrum multi-use insecticide recommended for agricultural and commercial use. It has been specially formulated for use as an adulticide for Public Health Programs.

Bayer CropScience
#100 - 3131 - 114th Avenue SE
Calgary, AB T2Z 3X2
Canada

Emergency Number (24 Hours/Day): 1-800-334-7577 Product Information: 1-888-283-6847

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	10.0000	
Other ingredients, including:		90.0000	
Distillates, petroleum, hydrotreated light	64742-47-8	> 80.0000	

SECTION 3. HAZARDS IDENTIFICATION

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

<u>Emergency Overview</u>	Causes skin irritation. Harmful if inhaled. Warning! Causes moderate eye injury. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. This product is highly toxic to fish and bees. Keep out of the reach of children.
Odor	very mild
Routes of Exposure	Eye contact, Skin contact, Inhalation
Immediate Effects	
Eye	Avoid contact with the eyes. Causes moderate eye injury.

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Skin Do not get in eyes, on skin, or on clothing. Causes skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Inhalation Do not breathe vapours or spray mist. Harmful if inhaled.

Chronic or Delayed Long-Term See Section 11 for carcinogenic/oncogenic information on permethrin.

SECTION 4. FIRST AID MEASURES

Eye Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

Skin Wash off with soap and plenty of water. Get medical attention immediately if irritation persists.

Ingestion More severe effects if alcohol is consumed. Risk of product entering the lungs on vomiting after ingestion. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Drink promptly a large quantity of milk, egg whites or gelatin solution, or if these are not available, drink large quantities of water. Call a physician or Poison Control Center immediately.

Inhalation Oxygen or artificial respiration if needed. Obtain medical attention. Take affected person to fresh air.

Notes to physician

Hazards Contains petroleum distillates.

Treatment 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 69 °C / 156 °F
Method: Tagliabue Closed Cup

Fire and Explosion Hazards Do not use this product in or on electrical equipment due to the possibility of shock hazard. Do not use near heat or open flame.

Suitable Extinguishing Media Carbon dioxide (CO₂), Dry chemical, Foam, 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 Dispose of with chemical waste. Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material).

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SECTION 7. HANDLING AND STORAGE

Handling Procedures	Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Do not use this product in or on electrical equipment due to the possibility of shock hazard. Use proper protective equipment to minimize personal exposure (see Section 8). Do not use near heat or open flame. Avoid contact with eyes.
Storing Procedures	Keep away from open flames, hot surfaces and sources of ignition. Do not contaminate water, food, or feed by storage or handling. Store upright at room temperature. Protect against heat/overheating.
Work/Hygienic Procedures	Remove and wash contaminated clothing before re-use. Wash thoroughly with soap and water after handling.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection	or Safety glasses Goggles			
Body Protection	Impervious gloves			
Respiratory Protection	Wear full-faced gas mask with canister type recommended for general insecticide protection for applying indoors as a space spray or fog.			
Exposure Limits				
Distillates, petroleum, hydrotreated light	64742-47-8	CAD ON OEL	TWA	525 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor	very mild
pH	Neutral
Vapor Pressure	< 1 mmHg at 25 °C
Vapor Density (air = 1)	> 5
Specific Gravity	0.84 at 20 °C
Bulk Density	7.0 lb/gal
Solubility (in water)	Emulsifiable
Viscosity	2.25 cS 20 °C
Other Information	PERCENT VOLATILES: 81 EVAPORATION RATE: < 0.1 (N-Butyl acetate = 1)

SECTION 10. STABILITY AND REACTIVITY

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Chemical Stability	Stable
Incompatibility	strong oxidizers
Hazardous Polymerization (Conditions to avoid)	Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

THE DATA BELOW WAS DEVELOPED WITH: permethrin, the active ingredient

Acute Oral Toxicity	Rat: LD50: > 5,000 mg/kg Practically non-toxic.
Acute Dermal Toxicity	Rabbit: LD50: > 5,050 mg/kg Practically non-toxic.
Acute Inhalation Toxicity	Rat: LC50: > 1.56 mg/l 4 h Slightly toxic. Maximum attainable concentration.
Skin Irritation	Rabbit: moderately irritant PDII = 4.2
Eye Irritation	Rabbit: moderately irritant
Sensitization	Guinea pig: non-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.

Assessment Carcinogenicity

ACGIH

None

NTP

None

IARC

Permethrin

52645-53-1

3

OSHA

None

Teratogenicity	Permethrin was not teratogenic when tested in rats.
Mutagenicity	Permethrin did not produce any mutagenic effects when tested in the Ames test.

SECTION 12. ECOLOGICAL INFORMATION

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Environmental Precautions

Highly toxic to fish. Do not apply when wind speeds exceed 10 mph. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Shrimp and crab may be killed at application rates recommended on this label. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply where runoff is likely to occur. Use with caution where these are important resources.

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 coincide with periods of minimum bee activity, usually between late evening and early morning.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Do not contaminate water, food, or feed by disposal.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of at an approved waste facility.

Container Disposal

Do not re-use empty containers. Wrap container in several layers of newspaper and discard in trash. Container One Gallon and Smaller:

Metal. Triple rinse containers. CONTAINERS LARGER THAN ONE GALLON 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.

Triple rinse containers. (Plastic) 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.

Triple rinse containers. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. Glass Containers:

RCRA Classification

Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Pesticides, liquid, toxic, n.o.s. (Permethrin), 6.1, UN2902, PG III, *

*State the net volume

DOT SHIPPING LABEL: Keep Away From Foodstuffs

NOTE: For transport purposes (49 CFR Part 173.132), the calculated 1-Hour LC50 (Rat) is > 6.24 mg/l.

SECTION 15. REGULATORY INFORMATION

PCP Registration No.

26476

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US Federal Regulations

TSCA list

Distillates, petroleum, hydrotreated light 64742-47-8

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

None

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

None

Canadian Regulations

Canadian Domestic Substance List

Distillates, petroleum, hydrotreated light 64742-47-8

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

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SECTION 16. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
NFPA	1	2	0	
HMIS	1	2	0	E

REVISED SECTIONS:

MSDS REVISION INDICATOR: New Canadian MSDS HSE Dept. Canada (306)-721-0310.

Approval Date: 17.05.2004

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