

MATERIAL SAFETY DATA SHEET

Permost Uni

1. SUBSTANCE / PREPARATION & COMPANY IDENTIFICATION

Chemical Nature A preparation of an hydrocarbon solution of synthetic pyrethroids

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2. COMPOSITION / INFORMATION ON INGREDIENTS

No.	Ingredients	CAS Reg. No.	EEC No.	%
1	Cyclohex-1-ene-1,2-dicarboximidomethyl (1RS, 3RS; 1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate	7696-12-0	N/A	0.10
2	3-phenoxybenyl (1RS)-cis,trans-3-(2,2-dichloro vinyl)-2,2-dimethylcyclopropanecarboxylate	52645-53-1	258-067-9	0.25
3	5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole	51-03-6	N/A	0.30
4	Aliphatic hydrocarbon solvent blend BPt. 190-220°C	64742-48-9	265-150-3	99.35

EEC RISK CLASSIFICATION

No.	Ingredient	Classification & Hazard Labelling	EEC No.
1	Tetramethrin	N; R50/53-57; S60	N/A
2	Permethrin	Xn; R22; S(2)-60	258-067-9
3	Piperonyl Butoxide	N; R52/53; S60	N/A
4	Solvent	Xn; R65; S23-24-62	265-150-3

3. HAZARD IDENTIFICATION OF PREPARATION

Harmful may cause lung damage if swallowed.

Harmful to aquatic environment

4. FIRST AID MEASURES

Skin Contact : Wash off with plenty of water.

Eye Contact : Rinse immediately with water for at least 15 minutes.

Inhalation : N/A

Ingestion : Get medical attention immediately. Drink plenty of water. In case of vomiting, beware of suffocation. Do not induce vomiting, unless you are First Aid Staff. Give nothing by mouth in case of unconsciousness or convulsions.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water mist; Carbon dioxide; Foam; Dry Powder
Unsuitable Extinguishing Media	High pressure water jet
Exposure Hazards	Burning produces compounds of carbon, chlorine and nitrogen. Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing.
Environmental Precautions	Prevent contamination of soil, drains and surface waters.
Methods for Cleaning	Absorb in inert material and place in suitable and closable container.

7. HANDLING & STORAGE

Handling	Do no eat, drink or smoke at the workplace.
Storage	Keep away from food and drink. Store in the original container tightly closed, below 30°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical Protective Measures	None required
Exposure Control Limits	None
Respiratory Protection	Wear suitable mask
Hand Protection	Wear suitable gloves
Eye Protection	Wear suitable goggles or face protection
Skin Protection	Wear overalls and closed footwear

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point / range	: N/A	Appearance	: Colorless mobile liquid
Boiling point / range	: 190-220°C	Odour	: Very low
Oxidising properties	: None	Density	: 0.80 +/- 0.05 @ 20°C
Auto flammability	: None	Flash Point	: > 75°C
Explosive properties	: None	Auto ignition	: > 450°C
Solubility in water	: Low	pH of 1% Solution	: 7
Vapour pressure	: 1 Pa @ 25°C	Viscosity	: 1cSt @ 20°C
Partition coefficient	: 100 000		

(octanol / water)

10. STABILITY AND REACTIVITY

Thermal Stability	Decomposes at 200°C
Conditions to Avoid	None
Materials to Avoid	Strong oxidizing agents, acids and mild alkalis
Hazardous Decomposition Products	None

11. TOXICOLOGICAL INFORMATION

Acute LD50 Oral Mice	: > 10000 mg/kg
Acute LD50 Dermal Rabbits	: > 10000 mg/kg
Acute LD50 Inhalation Rat (4 hr)	: > 25 mg/l air
Eye Irritation Rabbits	: None
Skin Irritation Rabbits	: None
Sensitization	: None
Carcinogenicity	: None
Mutagenicity	: None
Reproductive Toxicity	: None
WHO Class	: V
EPA Toxicity Class	: III
ADI (Man) mg/kg	: 0.05 (Permethrin)

12. ECOLOGICAL INFORMATION

LC50 (96 hr) brown trout	> 10 mg/l
LC50 (24 hr) Daphnia magna	N/K
Acute LD50 Oral Birds	100 000 (chickens)
Bee Toxicity	Non-toxic
% Biodegradability	95% in 1 year
Sewage Toxicity	Non-toxic

13. DISPOSAL CONSIDERATION

Incineration or landfill in accordance with local regulations. Contaminated packaging material should be treated as the product. Non-contaminated packing should be recycled.

14. TRANSPORT INFORMATION

UN No.	3082, Environmentally Hazardous, Liquid, N.O.S., (contains Permethrin and Tetramethrin)
Imco 9	Packing Group III
IATA Packing Instruction	N/A
Flash Point	>75°C
First Aid Code	N/A

15. REGULATORY INFORMATION

Classification	Harmful, N
Risk Phrases	R 52 Harmful to aquatic organisms R 53 May cause long-term effects in the aquatic environment R 65 May cause lung damage if swallowed
Safety Phrases	S 2 Keep out of reach of children S 23 Do not breathe spray S 56 Dispose of this material and its container to hazardous or special waste collection point S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Incompatible with alkaline materials.

This product should be stored, handled and used in accordance with good industrial practices & in conformity with any legal regulation. This information is based on our present knowledge of your guidance on Safety requirements. It is not intended as a specification.