
Product Name: Tetraperm™ 10-10-50 Water Based Concentrate
Product Code: 15461
MSDS Number : ENV-0051
Version Date: October 5 2001

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Material Safety Data Sheet

----- 1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION -----

Product Name: Tetraperm™ 10-10-50 Water Based Concentrate
Product Code: 15461
MSDS Number : ENV-0051
Chemical Family: Mixture
Chemical Formula: Mixture
EPA Registry Number: 73049-330

MANUFACTURER: Valent BioSciences Corporation
870 Technology Way, Suite 100
Libertyville, Illinois 60048

EMERGENCY TELEPHONE NUMBERS

Emergency Health or Spill:

Outside the United States: 651-632-6184

Within the United States: 877-315-9819

Tetraperm is a registered trademark of Aventis.

----- 2. COMPOSITION / INFORMATION on INGREDIENTS -----

Component	Cas number	%
Tetramethrin	7696-12-0	10%
Piperonyl butoxide	51-03-6	50%
Permethrin	52645-53-1	10%
Aliphatic Petroleum Distillates	64742-47-8	> 5%

----- 3. HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

Health: Harmful if swallowed. Avoid contact with eyes.
Avoid contamination of feed and foodstuffs.

Environmental: This product is extremely toxic to fish.

POTENTIAL HEALTH EFFECTS

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----- **3. HAZARDS IDENTIFICATION (Continued)** -----

ROUTES OF EXPOSURE:

Ingestion.

IMMEDIATE EFFECTS

SKIN:

May cause slight irritation.

EYES:

Minimally irritating.

INHALATION:

Not an expected route of entry during normal use.

INGESTION:

Harmful if swallowed.

DELAYED/LONG TERM EFFECTS

CARCINOGENIC:

See section 11 for chronic information concerning piperonyl butoxide and permethrin.

----- **4. FIRST AID MEASURES** -----

After contact with eyes:

Flush immediately with plenty of water. Get medical attention if irritation persists.

After ingestion:

Contact a physician or Poison Control Center immediately. Do not induce vomiting unless directed to do so by a physician.

Hints for the physician:

This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

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----- **5. FIRE FIGHTING MEASURES** -----

FLAMMABLE PROPERTIES

Flash point: > 200°F > 93°C TCC

Advice on protection against fire and explosion:

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

Suitable extinguishing media:

Carbon dioxide, dry chemical, foam or water.

----- **6. ACCIDENTAL RELEASE MEASURES** -----

Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

----- **7. HANDLING and STORAGE** -----

Handling:

Avoid contact with eyes. Avoid contamination of feed and foodstuffs.

Storage:

Store upright at room temperature. Avoid exposure to extreme temperatures.

----- **8. EXPOSURE CONTROLS / PERSONAL PROTECTION** -----

Hygiene measures:

Wash thoroughly after handling and before smoking or eating.

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----- **8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)** -----

Personal protective equipment

Body protection:

Chemical-resistant gloves.

Eye protection:

Safety glasses or goggles.

----- **9. PHYSICAL and CHEMICAL PROPERTIES** -----

APPEARANCE: Medium amber, liquid oil

ODOR: Mild ether

BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid

SOLUBILITY (H₂O): Partial

PH: 7.2 ± 0.3

VISCOSITY: 28.9 cs @ 20°C

DENSITY: 8.43 lb/gal

----- **10. STABILITY and REACTIVITY** -----

CHEMICAL STABILITY:

Stable

HAZARDOUS POLYMERIZATION:

Will not occur

----- **11. TOXICOLOGICAL INFORMATION** -----

EYE EFFECTS

Minimally irritating.

SKIN EFFECTS

Irritation: Slightly irritating

Absorption: LD50 > 5,050 mg/kg

Sensitization: Negative

ACUTE ORAL EFFECTS

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----- **11. TOXICOLOGICAL INFORMATION (Continued)** -----

LD50 > 500 mg/kg but < 5,000 mg/kg

ACUTE INHALATION EFFECTS

Not applicable

CHRONIC (CANCER INFORMATION)

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.

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.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

----- **12. ECOLOGICAL INFORMATION** -----

OTHER ENVIRONMENTAL INFORMATION

This product is extremely toxic to fish. Do not discharge effluent containing this product to lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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----- **13. DISPOSAL CONSIDERATIONS** -----

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 other approved State and local procedures.

----- **14. TRANSPORT INFORMATION** -----

PROPER SHIPPING NAME: Not DOT regulated

----- **15. REGULATORY INFORMATION** -----

STATE REGULATIONS

The following chemicals associated with the product are subject to the right-to-know regulations in these states:
Permethrin (52645-53-1): MA, NJ
Tetramethrin (7696-12-0): NJ
Piperonyl butoxide (51-03-6): NJ

U.S. FEDERAL REGULATIONS

TSCA inventory status
These components are not listed:
Permethrin 10% (52645-53-1)
Tetramethrin 10% (7696-12-0)

SARA 313 :
Permethrin 10% (52645-53-1)
Tetramethrin 10% (7696-12-0)
Piperonyl butoxide 50% (51-03-6)

INTERNATIONAL REGULATIONS

Die folgende(n) Chemikalie(n), die mit dem Produkt verbunden sind, sind auch auf folgenden internationalen Listen aufgef;hrt:
Permethrin (52645-53-1): EINECS
Tetramethrin (7696-12-0): EINECS

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INTERNATIONAL REGULATIONS (Continued)

Piperonyl butoxide (51-03-6): CANADIAN DSL, EINECS
Aliphatic Petroleum Distillates (64742-47-8): CANADIAN DSL,
EINECS

16. OTHER INFORMATION

HAZARD RATINGS

	HEALTH	FLAMM	REACT	OTHER
NFPA	1	1	0	-
HMIS	1	1	0	B

LEGEND: N/A = Not Applicable
N/D = Not Determined
N/L = Not Listed
L = Listed
C = Ceiling
S = Short-term

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870 Technology Way, Suite 100
Libertyville, IL 60048

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