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Product Name: Tetraperm® 10-25-50 O-B Concentrate  
Product Code: E89010  
MSDS Number : CENV-0052  
Version Date: October 4 2001

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## Material Safety Data Sheet

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

**Product Name:** Tetraperm® 10-25-50 O-B Concentrate  
**Product Code:** E89010  
**MSDS Number :** ENV-0052  
Chemical Family: Mixture  
Chemical Formula: Mixture  
EPA Registry Number: 73049-158  
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

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

Component	Cas number	%
Tetramethrin	7696-12-0	10%
Permethrin	52645-53-1	25%
Piperonyl butoxide	51-03-6	50%
Aliphatic Petroleum Distillates	64742-47-8	> 10%

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

#### EMERGENCY OVERVIEW:

Health: Harmful if swallowed. Causes moderate eye irritation.

- Avoid contact with skin, eyes or clothing.
- Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.
- Avoid contamination of feed and foodstuffs.

Environmental: This product is extremely toxic to fish.

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

**POTENTIAL HEALTH EFFECTS**

**ROUTES OF EXPOSURE:**

Ingestion and skin contact.

**IMMEDIATE EFFECTS**

**SKIN:**

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**EYES:**

Causes moderate eye irritation.

**INGESTION:**

Harmful if swallowed.

**DELAYED/LONG TERM EFFECTS**

**CARCINOGENIC:**

See Section 11 for chronic information on piperonyl butoxide and permethrin.

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

**After contact with skin:**

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

**After contact with eyes:**

Flush eyes with plenty of water. Call a physician if irritation persists.

**After ingestion:**

Call a physician or Poison Control Center. Drink 1 or 2 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. Avoid alcohol.

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## ----- 5. FIRE FIGHTING MEASURES -----

### **FLAMMABLE PROPERTIES**

Flash point: > 200°F > 93°C TCC

### **Suitable extinguishing media:**

Carbon dioxide, dry chemical, foam or water.

### **Extinguishing media that must not be used for safety reasons:**

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

## ----- 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, skin and clothing. Avoid contamination of food and feed.

### **Storage:**

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

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

### **Hygiene measures:**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

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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: Liquid

**BASIC PHYSICAL PROPERTIES**

SPECIFIC GRAVITY: 1.051 @ 20°C

PH: Neutral

VISCOSITY: 38.6 cs @ 20°C

DENSITY: 8.75 lbs/gal

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

**CHEMICAL STABILITY:**

Stable

**HAZARDOUS POLYMERIZATION:**

Will not occur

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

**EYE EFFECTS**

Moderately irritating

**SKIN EFFECTS**

Irritation: Mildly irritating

Absorption: LD50 > 5,050 mg/kg

Sensitization: Positive

**ACUTE ORAL EFFECTS**

LD50 = 5,700 mg/kg

**ACUTE INHALATION EFFECTS**

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

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.

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

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by 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

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----- **13. DISPOSAL CONSIDERATIONS (Continued)** -----

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:

Tetramethrin (7696-12-0): NJ  
Permethrin (52645-53-1): MA, NJ  
Piperonyl butoxide (51-03-6): NJ

**U.S. FEDERAL REGULATIONS**

TSCA inventory status  
These components are not listed:  
Tetramethrin 10% (7696-12-0)  
Permethrin 25% (52645-53-1)

SARA 313 :

Tetramethrin 10% (7696-12-0)  
Permethrin 25% (52645-53-1)  
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 aufgeföhrt:

Tetramethrin (7696-12-0): EINECS  
Permethrin (52645-53-1): EINECS  
Piperonyl butoxide (51-03-6): CANADIAN DSL, EINECS  
Aliphatic Petroleum Distillates (64742-47-8): CANADIAN DSL,  
EINECS

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----- **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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October 2001

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