



Material Safety Data Sheet

TetraPerm® 10-10 Concentrate

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, and storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TetraPerm® 10-10 Concentrate
MSDS IDENTIFICATION NO.: ENV-0141
CHEMICAL NAME: Mixture; a.i.'s: permethrin, tetramethrin
EPA REGISTRATION NUMBER: 73049-434
SYNONYM(S): TetraPerm® 10-10 YW 82-1
PRODUCT DESCRIPTION: For formulation into insecticides only.

TetraPerm is a registered trademark of Valent BioSciences Corporation.

MANUFACTURER

Valent BioSciences Corporation
870 Technology Way
Libertyville, IL 60048

EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY OR SPILL (24 hr):
Within the United States: (877) 315-9819
Outside the United States: (651) 632-6184

PRODUCT INFORMATION

ENVIRONMENTAL SCIENCE PRODUCTS:
(866) 822-3731
www.valentbiosciences.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight/Percent	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	10	None	None	See regulated exposure limits
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	10	None	None	See regulated exposure limits
Inert Ingredients Containing: ** (No CAS#)	90	None	None	See regulated exposure limits
Aromatic Hydrocarbon † (64742-94-5)	< 25	None	None	100 mg/m ³ TWA

Emergency Telephone: In US (877) 315-9819; Outside US (651) 632-6184
REVISION NUMBER: 1

MSDS NO.: ENV-0141
REVISION DATE: 08/07/2007

Chemical Name	Weight/ Percent	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Naphthalene (91-20-3)	< 2.5	Listed 15 ppm STEL 10 ppm TWA	10 ppm TWA 50 mg/m ³ TWA 15 ppm STEL 75 mg/m ³ STEL	See regulated exposure limits
Petroleum Distillates † (64742-47-8)	< 50	None	None	2000 mg/m ³ TWA
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	< 50	None	None	1200 mg/m ³ TWA
Methyl Oleate † (112-62-9)	< 75	None	None	See regulated exposure limits

* Active Ingredient

** Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identity is withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(877) 315-9819** (within the United States) or **(651) 632-6184** (outside the United States) at any time.

† Alternate Formulas, in which chemical noted may or may not be present.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

A MEDIUM AMBER, SLIGHTLY VISCOUS LIQUID

CAUTION

- Harmful if swallowed.
- Causes moderate eye irritation.
- Extremely toxic to fish and aquatic invertebrates.
- Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): Inhalation, eye and skin contact

Signs and Symptoms of Systemic Effects: The toxicity of this product has not been fully assessed. The information provided is based on the technical material or a similar product.

Acute Eye Contact: This product may cause slight to moderate eye irritation. Adverse health effects resulting from an exposure may include redness, swelling and pain which could last for an extended period of time.

Acute Skin Contact: This product is minimally toxic when absorbed through the skin. This product can cause brief and/or minor irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling. This product may cause allergic skin reactions. In sensitized individuals even small exposures can trigger allergic reactions. The expected adverse health effects may include itching, redness, swelling and blistering of the skin. This product contains a pyrethroid. Skin contact with pyrethroids can result in a temporary burning, tingling or itching sensation.

Acute Ingestion: This product is slightly toxic when ingested.

Acute Inhalation: This product is minimally toxic when inhaled. Exposure to high concentrations in the air may result in respiratory irritation. Signs and symptoms may include, but not be limited to, nasal discharge, sore throat, coughing and difficulty in breathing.

Chronic Toxicity (including cancer): This product contains naphthalene which has been listed by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B).

Potentially Aggravated Medical Conditions: None known

For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11. For Regulatory Information, refer to Section 15.

4. FIRST AID MEASURES

**EMERGENCY NUMBER: within the United States (877) 315-9819;
outside the United States (651) 632-6184**

EYE CONTACT:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN CONTACT:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION:

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN:

This product contains a Pyrethroid pesticide. If a small amount is ingested (or if treatment is delayed) oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy. If large amounts are ingested and vomiting has not occurred emesis should be induced with supervision. Keep patients head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

Do not administer milk, cream or other substance containing vegetable or animal fats, which enhance the absorption of lipophilic substances.

If localized paresthesia develops, the site should be thoroughly washed with soap and water. Cold cream can be applied to help diminish the effect.

Contains petroleum distillates - vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

FLASH POINT: > 100° C
FLAME EXTENSION: Not applicable
AUTOIGNITION: No data available
EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam, dry chemical

FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable

NFPA RATING:

Health: 1

Flammability: 1
Reactivity: 0
Special: None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

HAZARDOUS COMBUSTION PRODUCTS: May form toxic materials: Carbon dioxide, carbon monoxide various hydrocarbons etc.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY TELEPHONE NUMBERS
HEALTH EMERGENCY OR SPILL (24 hr):
Within the United States: (877) 315-9819
Outside the United States: (651) 632-6184

OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

If it is safe to do so:

- Evacuate non-essential personnel from the area to prevent human exposure.
- Remove all sources of ignition.
- Ventilate area.
- Stop the source of the spill.
- Contain the spill to prevent further contamination of the soil, surface water or ground water.
- May produce slippery conditions.

GENERAL AND DISPOSAL: Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, Provincial, and local regulations (See Section 15 for applicable RCRA Number). Refer to Section 15 for applicable Reportable Quantity (RQ) and other regulatory requirements.

SPILL OR LEAK

CONTAINMENT: Small Spills: Absorb with an inert absorbent material such as sand, granular clay, sawdust, Fuller's earth, etc. and dispose of in trash. Place in an approved chemical waste container for disposal. Where possible drum should be oriented to prevent further leakage. Do not allow spilled material to enter any body of water.

Large Spills: Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. Dike far ahead of the spill for later disposal. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs.

CLEANUP: Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert adsorbents and place into an approved chemical waste container for disposal. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

Recommend neutralizing agent: Dilute alkaline (base) solution.

7. HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

HANDLING PRECAUTIONS: Harmful if swallowed. Avoid contact with skin, eyes or clothing. Skin contact especially to the face may result in a tingling sensation and reddening of the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Prevent and minimize fire and explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Do not use electronic devices (including but not limited to mobile phones, computers, calculators, pagers, etc...). Electrical equipment and fittings must comply with local fire correct grounding procedures.

STORAGE: Do not contaminate water, food or feed by storage or disposal. Store in a cool, well-ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep only in original container. Under cold conditions some products may precipitate. Do not store near heat or open flame.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

EYES: Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

RESPIRATORY PROTECTION: Use this material only in well ventilated areas. Unless ventilation is adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

SKIN PROTECTION: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

ENGINEERING CONTROLS: Control airborne concentrations below appropriate exposure guidelines. Use local exhaust ventilation.

OTHER/GENERAL PROTECTION: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. All workers should shower after handling the product. Launder all articles after each use. Remove contaminated clothing and wash before reuse. Eye wash facility and safety shower should be available.

EXPOSURE LIMITS - See Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Light to medium amber
ODOR:	Solvent odor
MELTING POINT:	Not applicable
BOILING POINT:	No data available
DENSITY:	0.8957 g/mL; 7.48 lb/gal
SPECIFIC GRAVITY:	0.90 @ 24° C
VAPOR PRESSURE:	No data available
pH:	No data available
VISCOSITY:	4.01 cps @ 24°C
SOLUBILITY:	No data available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal ambient temperatures.
INCOMPATIBILITY:	Strong acids and oxidizing agents
OXIDATION/REDUCTION PROPERTIES:	Product does not have the potential to act as a strong oxidizing or reducing agent.
EXPLODABILITY:	No data available
HAZARDOUS POLYMERIZATION :	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	May form toxic materials such as: Carbon dioxide, carbon monoxide, various hydrocarbons, etc.
CONDITIONS TO AVOID:	Excessive heat and sources of ignition.

11. TOXICOLOGICAL INFORMATION

ACUTE (Product Specific Information):

No acute toxicity data is available for this formulation. Acute toxicity data is based on an evaluation of the ingredients or on a similar formulation with comparable levels of active ingredient.

Oral Toxicity LD ₅₀ (rats)	> 500 mg/kg	EPA Tox Category	III
Dermal Toxicity LD ₅₀ (rabbits)	> 2020 to > 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	> 5.32 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Mildly irritating	EPA Tox Category	III
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	III
Skin Sensitization (guinea pigs)	Positive	EPA Tox Category	Not applicable

TOXICITY OF ACTIVE INGREDIENTS: PERMETHRIN & TETRAMETHRIN

CHRONIC/CARCINOGENICITY: Tetramethrin: Tetramethrin is listed as a Class C carcinogen by EPA. In rat toxicity studies, tetramethrin has caused the development of testicular interstitial cell tumors.

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.

DEVELOPMENTAL TOXICITY: Permethrin was not teratogenic when tested in rats.

MUTAGENICITY: Permethrin did not produce any mutagenic effects when tested in the Ames assay, Chromosome aberration test or DNA damage test.

TOXICITY OF INERT INGREDIENTS:

CHRONIC/CARCINOGENICITY: This product contains naphthalene which has been listed by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Acute exposure to naphthalene by inhalation, ingestion and dermal contact has been associated with hemolytic anemia, damage to the kidneys, cataracts, and, in infants, brain damage. There is limited evidence of fetal and maternal toxicity from exposure to naphthalene.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES:

This product is highly toxic to fish.

OTHER ENVIRONMENTAL INFORMATION:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination system (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water when disposing of equipment wash waters.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL:

Do not reuse this container. If empty: Place in trash or offer for recycling if available. Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

DISPOSAL METHODS:

Check government regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

14. TRANSPORT INFORMATION

DOT (ground) SHIPPING NAME:	Combustible liquid, n.o.s. (contains petroleum distillates)
DOT REPORTABLE QUANTITY (RQ):	535 gallons (Naphthalene RQ=100 lb)
UN/NA NUMBER:	NA 1993
HAZARD CLASS:	3
PACKING GROUP:	III
REMARKS:	Non-bulk quantities (< 199 gallons) may be shipped as non-regulated.
EXEMPTION REQUIREMENT:	49 CFR 173.150

15. REGULATORY INFORMATION**OTHER U.S. FEDERAL REGULATIONS:**

Chemical Name	RCRA - U Series Wastes	Clean Water Act - Hazardous Substances	Clean Water Act Section 307
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	None	Not listed	Not listed
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	None	Not listed	Not listed
Aromatic Hydrocarbon † (64742-94-5)	None	Not listed	Not listed
Naphthalene (91-20-3)	Listed	Listed	Listed
Petroleum Distillates † (64742-47-8)	None	Not listed	Not listed
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	None	Not listed	Not listed
Methyl Oleate † (112-62-9)	None	Not listed	Not listed

CWA Section 311: A component of this product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills that produce a visible sheen on either surface or in waterways/sewers that lead to surface water must be reported to the National Response Center at 800-424-8802.

Chemical Name	SARA 313 Chemicals	SARA Section 302	CERCLA Reportable Quantity (RQ):
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	1.0% de minimis concentration	Not listed	None
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	1.0% de minimis concentration	Not listed	None
Aromatic Hydrocarbon † (64742-94-5)	Not listed	Not listed	None
Naphthalene (91-20-3)	0.1% de minimis concentration	Not listed	100 lb 45.4 kg
Petroleum Distillates † (64742-47-8)	Not listed	Not listed	None
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	Not listed	Not listed	None
Methyl Oleate † (112-62-9)	Not listed	Not listed	None

Product Reportable Quantity (RQ): 535 Gallons

SARA (311, 312):

Immediate Health: Yes
 Chronic Health: Yes
 Fire: Yes
 Sudden Pressure: No
 Reactivity: No

Chemical Name	IARC - Group 1 (carcinogenic to humans)	IARC - Group 2A (Probably carcinogenic)	IARC - Group 2B (Possibly carcinogenic)	NTP Carcinogen List
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	No	No	No	Not listed
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	No	No	No	Not listed
Aromatic Hydrocarbon † (64742-94-5)	No	No	No	Not listed
Naphthalene (91-20-3)	No	No	Yes	Suspect Carcinogen
Petroleum Distillates † (64742-47-8)	No	No	No	Not listed
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	No	No	No	Not listed
Methyl Oleate † (112-62-9)	No	No	No	Not listed

STATE REGULATIONS:

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 2 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above.

Chemical Name	California Proposition 65	California - Directors List of Hazardous Substances	NJ Environmental Hazardous Substances List
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	Not listed	Not listed	Listed
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	Not listed	Not listed	Listed
Aromatic Hydrocarbon † (64742-94-5)	Not listed	Not listed	Not listed
Naphthalene (91-20-3)	carcinogen, initial date 4/19/02	Listed	Listed
Petroleum Distillates † (64742-47-8)	Not listed	Not listed	Not listed
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	Not listed	Not listed	Not listed
Methyl Oleate † (112-62-9)	Not listed	Not listed	Not listed

Chemical Name	MI - Critical Materials List	MA Right To Know	NJ Right To Know
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	Not listed	Listed	Listed
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	Not listed	Not listed	Not listed
Aromatic Hydrocarbon † (64742-94-5)	Not listed	Not listed	Not listed
Naphthalene (91-20-3)	Not listed	Listed	Listed
Petroleum Distillates † (64742-47-8)	Not listed	Not listed	Not listed
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	Not listed	Not listed	Not listed
Methyl Oleate † (112-62-9)	Not listed	Listed	Not listed

Chemical Name	PA Right To Know	RI Right To Know	MN Hazardous Substance
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	Not listed	Not listed	Not listed
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	Not listed	Not listed	Not listed
Aromatic Hydrocarbon † (64742-94-5)	Not listed	Not listed	Not listed
Naphthalene (91-20-3)	Listed	Listed	Listed
Petroleum Distillates † (64742-47-8)	Not listed	Not listed	Not listed
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	Not listed	Not listed	Not listed
Methyl Oleate † (112-62-9)	Not listed	Listed	Not listed

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

CHEMICAL INVENTORY INFORMATION:

TSCA Inventory List - Registered pesticide, exempt from TSCA.

Chemical Name	Canada NDSL Inventory List	Canada DSL Inventory List -	EINECS Inventory List -
Permethrin * (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	Not listed	Not listed	258-067-9
Tetramethrin * [(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate] (7696-12-0)	Not listed	Not listed	231-711-6
Aromatic Hydrocarbon † (64742-94-5)	Not listed	Listed	265-198-5
Naphthalene (91-20-3)	Not listed	Listed	202-049-5
Petroleum Distillates † (64742-47-8)	Not listed	Listed	265-149-8
Synthetic Isoparaffinic Hydrocarbon † (64742-47-8)	Not listed	Listed	265-149-8
Methyl Oleate † (112-62-9)	Not listed	Listed	203-992-5

CANADIAN REGULATIONS:

WHMIS Hazard Class: Not determined

For information regarding potential adverse health effects from exposure to this product, refer to Sections 3 and 11.

16. OTHER INFORMATION

REASON FOR ISSUE: EPA approved label edits throughout.
EPA REGISTRATION NUMBER: 73049-434
MSDS NO.: ENV-0141
REVISION NUMBER: 1
REVISION DATE: 08/07/2007
SUPERCEDES DATE: 11/01/05

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESS OR IMPLIED WARRANTY. BUYER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH LABEL INSTRUCTIONS.

THE INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT VALENT BIOSCIENCES TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

JUDGEMENTS AS TO THE SUITABILITY OF INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES ARE NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, VALENT EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

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