



Material Safety Data Sheet

SBP-1382 Bioallethrin Insecticide Concentrate 10-6.25% Formula I

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: SBP-1382 Bioallethrin Insecticide Concentrate 10-6.25% Formula I
MSDS IDENTIFICATION NO.: ENV-0044
ITEM/LIST NUMBER: 15411
CHEMICAL NAME: Mixture; a.i.'s, resmethrin & bioallethrin
EPA REGISTRATION NUMBER: 73049-95
PRODUCT DESCRIPTION: This product is to be used only for the formulation of insecticides.

SBP-1382 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
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	10	None	None	See regulated exposure limits
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	6.25	None	None	See regulated exposure limits
Others ** (including): (Various CAS#s)	> 72.75	None	None	See regulated exposure limits
Aromatic Hydrocarbon † (64742-95-6)	> 20	None	None	17 ppm TWA 100 mg/m ³ TWA

Emergency Telephone: In US (877) 315-9819; Outside US (651) 632-6184
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1,2,4-Trimethylbenzene † (95-63-6)	> 6	25 ppm TWA	25 ppm TWA 125 mg/m ³ TWA (vacated)	See regulated exposure limits
Xylenes, mixed isomers † (1330-20-7)	< 1	100 ppm TWA 150 ppm STEL	100 ppm TWA 150 ppm STEL 435 mg/m ³ TWA 655 mg/m ³ STEL	See regulated exposure limits
Cumene (isopropylbenzene) † (98-82-8)	< 1	50 ppm TWA	245 mg/m ³ TWA 50 ppm TWA prevent or reduce skin absorption	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

AN AMBER LIQUID WITH A STRONG SOLVENT ODOR LIKE PAINT OR GLUE

CAUTION

- Harmful if swallowed.
- May cause eye irritation.
- Combustible.
- Highly toxic to fish.
- 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: Stuffy or runny nose, scratchy throat and localized sensitization. Inhalation of high vapor or mist concentrations can cause respiratory tract and eye irritation as well as central nervous system effects (drowsiness, dizziness, nausea, headaches and loss of consciousness) including death. May cause gastrointestinal effects such as nausea, vomiting and diarrhea.

Acute Eye Contact: This product is expected to cause minimal or no eye irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling.

Acute Skin Contact: 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 is minimally toxic when absorbed through the skin. This product is not expected to cause allergic skin reactions. 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.

Ingestion of small quantities are usually nonfatal unless aspiration occurs. If aspiration occurs during ingestion or vomiting it may cause mild to severe pulmonary injury, possibly progressing to death.

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 is not listed as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or ACGIH.

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:

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis.

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.

5. FIRE FIGHTING MEASURES

FLASH POINT: 100° F (38° C)
FLASH POINT METHOD: TCC

FLAME EXTENSION: No data available
AUTOIGNITION: No data available
EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam, dry chemical

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

NFPA RATING:

Health:	1
Flammability:	2
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 & EXPLOSION HAZARDS: Combustible. Do not use or store near heat or open flame.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

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 13 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 granular clay, sawdust, or pet litter. Sweep up carefully while avoiding the formation of dust cloud. Place in an approved chemical waste container for disposal. 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 the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

7. HANDLING AND STORAGE

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

HANDLING PRECAUTIONS: Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Avoid contamination of feed and foodstuffs. Do not use near heat or open flame.

STORAGE: Store upright at room temperature. Do not store near heat or open flame. Do not store at temperatures below 40°F (4.5°C). If this material has been exposed to temperatures below 40°F, there may be precipitation. Check for crystallization. If evident, warm to 80°F (26.5°C) and thoroughly mix before using. Do not use open flame. Do not contaminate water, food or feed by storage or disposal.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling and before smoking or eating. 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 safety glasses or goggles.

RESPIRATORY PROTECTION: Ensure good ventilation. If not adequate, use a chemical cartridge-type respirator by the NIOHS.

SKIN PROTECTION: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves (such as butyl or nitrile rubber 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. 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:	Clear amber
ODOR:	Strong solvent odor like paint or glue
MELTING POINT:	Not applicable
BOILING POINT:	No data available

BULK DENSITY:	8.25 lbs/gal (similar product)
VAPOR PRESSURE:	No data available
pH:	No data available
VISCOSITY:	No data available
SOLUBILITY:	Emulsifiable in water

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 below is for a similar formulation SBP-1382 Bioallethrin Insecticide Concentrate 10 - 7.5% Formula I, containing Resmethrin at 10% and Bioallethrin at 7.5%. (EPA Reg. No. 73049-87).

Oral Toxicity LD ₅₀ (rats)	> 5050 mg/kg (male) = 3870 mg/kg (female)	EPA Tox Category	III
Dermal Toxicity LD ₅₀ (rabbits)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	> 2.28 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Non-sensitizer	EPA Tox Category	Not applicable

SUBCHRONIC: The NOEL established for Resmethrin in a 90-day inhalation study was 0.1g/m³. The NOEL was 10 mg/kg/day when dogs were fed diets containing Resmethrin for 180 days.

CHRONIC/CARCINOGENICITY: Resmethrin did not produce any evidence of toxic effects when fed to rats at concentrations of up to 500 ppm for 2 years.

Resmethrin was not considered to be oncogenic based on chronic feeding studies conducted in rats and mice.

Studies conducted on a product similar to bioallethrin did not reveal any evidence of oncogenicity.

REPRODUCTION: A slight increase in the number of pups cast dead and a decrease in pup weights were observed when rats were fed diets containing 500 ppm (lowest dosage tested) or higher of Resmethrin Technical over three successive generations.

DEVELOPMENTAL TOXICITY: Resmethrin is not considered to be teratogenic based on studies conducted in rabbits and rats.

Studies conducted on a product similar to bioallethrin in rats and mice did not reveal any evidence of teratogenicity.

NEUROTOXICITY: Resmethrin is not considered to be a neurotoxin based on rat feeding studies for up to 32 weeks.

MUTAGENICITY: Resmethrin is not considered to be mutagenic based on *in vitro* studies conducted with bacteria and yeast.

Bioallethrin is not considered to be mutagenic based on *in vitro* studies conducted.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

TOXICITY OF OTHER INGREDIENTS

CHRONIC/CARCINOGENICITY: This product contains a solvent mixture. Solvents, when inhaled, can cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possibly unconsciousness and even death. Ingestion of solvents can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated dermal exposures may cause drying, scaling and even blistering of the skin. Aspiration of low viscosity products can cause chemical pneumonitis which can be fatal.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES:

This product is highly toxic to fish.

ECOLOGICAL TOXICITY:

AVIAN

Resmethrin Technical is practically non-toxic to birds following acute exposures:
Oral LD₅₀ male Bobwhite Quail: >2,000 mg/kg;
Dietary LC₅₀ Japanese Quail: > 5,000 ppm;
Reproduction Mallard Duck (repro NOEL): 300 ppm
Reproduction Bobwhite Quail (repro NOEL): 300 ppm

Allethrin (similar to bioallethrin) is slightly toxic to birds with a mallard oral LC₅₀ value less than 2000 mg/kg.

AQUATIC

Resmethrin Technical is very highly toxic to freshwater organisms:
96 hour LC₅₀ Rainbow Trout: 2.4 µg/l;
96 hour LC₅₀ Bluegill Sunfish: 8.75 µg/l;
LC₅₀ Goldfish: 28 µg/l (after 72 hours, water containing 250 ppb resmethrin resulted in zero mortality)

Three applications of resmethrin at 0.10 lbs ai/acre applied at 2 week intervals caused no mortality to kill fish, even where concentrations reached a maximum of 7.3 ppb in the test ponds. Under similar conditions, using approximately 0.04 lbs ai/acre or 7.3 ppb of actual insecticide in water resulted in no mortality to grass shrimp.

Allethrin (similar to bioallethrin) is very highly toxic to freshwater organisms:
96 hour LC₅₀ Rainbow Trout: 19.0 µg/l;
96 hour LC₅₀ Bluegill Sunfish: 56 µg/l;
96 hour LC₅₀ Scuds: 11.0 µg/l

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:

If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions.

CONTAINER DISPOSAL:

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:

Wastes resulting from use of this product may be disposed of on site or at a waste disposal facility. Never place unused product down any indoor or outdoor drain.

14. TRANSPORT INFORMATION

DOT (ground) SHIPPING NAME:	Flammable liquid, n.o.s. (contains petroleum distillates)
UN/NA NUMBER:	UN 1993
HAZARD CLASS:	3
PACKING GROUP:	III
REMARKS:	For transportation purposes (49 CFR Part 173.132), the calculated 1-Hour LC50 (rat) is > 9.12 mg/l.
EXEMPTION REQUIREMENT:	49 CFR 173.150

15. REGULATORY INFORMATION

REGULATIONS UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

EPA REGISTRATION NUMBER: 73049-95

OTHER U.S. FEDERAL REGULATIONS:

Chemical Name	RCRA - U Series Wastes	Clean Water Act - Hazardous Substances	Clean Water Act Section 307
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	None	Not listed	Not listed
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	None	Not listed	Not listed
Others ** (including): (Various CAS#s)	None	Not listed	Not listed
Aromatic Hydrocarbon † (64742-95-6)	None	Not listed	Not listed
1,2,4-Trimethylbenzene † (95-63-6)	None	Not listed	Not listed
Xylenes, mixed isomers † (1330-20-7)	waste number U239 (Ignitable waste, Toxic waste)	Present	Not listed
Cumene (isopropylbenzene) † (98-82-8)	waste number U055 (Ignitable waste)	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):
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	1.0% de minimis concentration	Not listed	None
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	1.0% de minimis concentration	Not listed	None
Others ** (including): (Various CAS#s)	Not listed	Not listed	None
Aromatic Hydrocarbon † (64742-95-6)	Not listed	Not listed	None
1,2,4-Trimethylbenzene † (95-63-6)	1.0% de minimis concentration	Not listed	None
Xylenes, mixed isomers † (1330-20-7)	1.0% de minimis concentration	Not listed	100 lb 45.4 kg
Cumene (isopropylbenzene) † (98-82-8)	1.0% de minimis concentration	Not listed	2270 kg 5000 lb

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
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	No	No	No	Not listed
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	No	No	No	Not listed
Others ** (including): (Various CAS#s)	No	No	No	Not listed
Aromatic Hydrocarbon † (64742-95-6)	No	No	No	Not listed
1,2,4-Trimethylbenzene † (95-63-6)	No	No	No	Not listed
Xylenes, mixed isomers † (1330-20-7)	No	No	No	Not listed
Cumene (isopropylbenzene) † (98-82-8)	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
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	developmental toxicity, initial date 11/6/98	Not listed	SN 3450
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	Not listed	Not listed	SN 3647
Others ** (including): (Various CAS#s)	Not listed	Not listed	Not listed
Aromatic Hydrocarbon † (64742-95-6)	Not listed	Not listed	Not listed
1,2,4-Trimethylbenzene † (95-63-6)	Not listed	Present	SN 2716
Xylenes, mixed isomers † (1330-20-7)	Not listed	Present	SN 2014
Cumene (isopropylbenzene) † (98-82-8)	Not listed	Present	SN 0542

Chemical Name	MI - Critical Materials List	MA Right To Know	NJ Right To Know
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	Not listed	Not listed	Not listed
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	Not listed	Not listed	Not listed
Others ** (including): (Various CAS#s)	Not listed	Not listed	Not listed
Aromatic Hydrocarbon † (64742-95-6)	Not listed	Not listed	Not listed
1,2,4-Trimethylbenzene † (95-63-6)	Not listed	Present	sn 1929 sn 2716
Xylenes, mixed isomers † (1330-20-7)	100 lb Annual usage threshold	Present	sn 2014
Cumene (isopropylbenzene) † (98-82-8)	Not listed	Present	sn 0542

Chemical Name	PA Right To Know	RI Right To Know	MN Hazardous Substance
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	Not listed	Not listed	Not listed
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	Not listed	Not listed	Not listed
Others ** (including): (Various CAS#s)	Not listed	Not listed	Not listed
Aromatic Hydrocarbon † (64742-95-6)	Not listed	Not listed	Not listed
1,2,4-Trimethylbenzene † (95-63-6)	Environmental hazard Present	Toxic	Present
Xylenes, mixed isomers † (1330-20-7)	Environmental hazard	Toxic; Flammable	Present (includes all isomers)
Cumene (isopropylbenzene) † (98-82-8)	Environmental hazard	Toxic; Flammable	Skin

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

CHEMICAL INVENTORY INFORMATION:

TSCA Inventory List - Registered pesticide, exempt from TSCA.

Chemical Name	Canada NDSL Inventory List -	Canada DSL Inventory List -	EINECS Inventory List -
Resmethrin ([5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (10453-86-8)	Not listed	Present	233-940-7
Bioallethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate) * (28057-48-9)	Not listed	Not listed	Not listed
Others ** (including): (Various CAS#s)	Not listed	Not listed	Not listed
Aromatic Hydrocarbon † (64742-95-6)	Not listed	Present	265-199-0
1,2,4-Trimethylbenzene † (95-63-6)	Not listed	Present	202-436-9
Xylenes, mixed isomers † (1330-20-7)	Not listed	Present	215-535-7
Cumene (isopropylbenzene) † (98-82-8)	Not listed	Present	202-704-5

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: Input MSDS into the new system and minor edits throughout.
EPA REGISTRATION NUMBER: 73049-95
MSDS NO.: ENV-0044
REVISION NUMBER: 1
REVISION DATE: 03/30/2006
SUPERCEDES DATE: 10/04/2001

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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