

Material Safety Data Sheet



SBP-1382® Insecticide Concentrate 40

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to 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, 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.

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	SBP-1382 ® Insecticide Concentrate 40
EPA REGISTRATION NUMBER:	73049-78
P.C.P. REGISTRATION NUMBER:	19870
MSDS IDENTIFICATION CODE/NO.:	ENV-0095
CHEMICAL NAME:	Mixture; a.i.'s, resmethrin
PRODUCT DESCRIPTION:	This product is intended for formulation of insecticides only. For formulation into insecticides intended for the following uses: Domestic Indoor (household), Domestic Outdoor (household/Ornamental), Indoor Food Handling Establishments (Edible Product Areas), Non-Commercial Greenhouse Ornamentals, Mosquito Control, Commercial Industrial Use, Treatments of Animals Not Intended for Food and Uncultivated Non-Agricultural Areas.

SBP-1382 is a registered trademark of Valent BioSciences Corporation.

MANUFACTURER

Valent BioSciences Corporation
870 Technology Way
Libertyville, Illinois 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

EMERGENCY TELEPHONE #: Within the United States (877) 315-9819
Outside the United States (651) 632-6184

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SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name (CAS #) [Chemical Name]	Weight Percent	Exposure Limit	Ref.
Resmethrin (10453-86-8)* [5-(phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate Synthetic Pyrethroid	= 40	None established	
Inert Ingredients Containing: **	= 60		
Light Aromatic Petroleum Solvent CAS # 64742-95-6	< 60	None established	

* 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.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

A CLEAR GOLDEN SOLUTION WITH A MILD AROMATIC ODOR

CAUTION:

- HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN
- TOXIC TO FISH
- COMBUSTIBLE

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): Ingestion 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. May also cause gastrointestinal effects such as nausea, vomiting and diarrhea.

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Eye: Slightly irritating.

Skin: Harmful if absorbed through skin. Prolonged or repeated contact may result in contact dermatitis, which is characterized by dryness, chapping and reddening.

Ingestion: Harmful or fatal if ingested in excess. Ingestions of small quantities are usually nonfatal unless aspiration occurs. If aspiration occurs during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death

Inhalation: Harmful or fatal if inhaled in excess.

SECTION 4: FIRST AID MEASURES

EMERGENCY NUMBER

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EYES: 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: 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: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

HINTS FOR THE PHYSICIAN: This product contains a Pyrethroid. 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.

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

SECTION 5: FIRE FIGHTING MEASURES

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

AUTOIGNITION: NA

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, or Water

FLAMMABLE LIMITS (% by volume in air): Lower: NA Upper: NA

FIRE AND 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 and carbon monoxide, various hydrocarbons, etc.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Remove all sources of ignition, if safe to do so. Ventilate area. Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water.

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: Soak up liquid with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. and dispose of in trash. Place in an approved chemical waste container for disposal. Do not allow spill 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 liquid 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 absorbents 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.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. Do not use near heat or open flame.

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STORAGE PRECAUTIONS:

Do not contaminate water, food or feed by storage or disposal. Do not store at temperatures below 40°F (4.5°C), 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 store near heat or open flame.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

RESPIRATION/VENTILATION: Use in a well ventilated area. If not adequate, use a chemical cartridge-type respirator approved by the National Institute of Occupational Health and Safety.

EYE PROTECTION Safety glasses or goggles.

SKIN PROTECTION: Use of butyl or nitrile rubber gloves.

BODY PROTECTION: Clothing (disposable or washable) to minimize skin contact.

OTHER/GENERAL PROTECTION: Eye wash facility and safety shower should be available. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear golden solution.
ODOR:	Mild aromatic odor.
PHYSICAL STATE:	Liquid
SOLUBILITY (H₂O):	Insoluble
pH:	NA
BOILING POINT:	290°F, 143°C
DENSITY/SPECIFIC GRAVITY:	8.4 lb/gal @ 25°C
PERCENT VOLATILIES:	52

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat and sources of ignition.

INCOMPATIBILITY: Strong oxidizers and reducing agents.

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

OXIDATION/REDUCTION PROPERTIES: Product does not have the potential to act as a strong oxidizing or reducing agent.

HAZARDOUS POLYMERIZATION: Will not occur

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SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE (Product Specific Information): Exposure levels tested in animals at or near the LD₅₀/LC₅₀ have produced the following symptomology: decreased locomotion, tremors, bloody tears, diarrhea, bloody nose, gasping, ataxia, tearing, nasal discharge, increased urination, bulging eyes, salivation, decreased defecation and erect body hair.

Oral Toxicity LD₅₀ (rat):	3,540 mg/kg	III EPA Tox Category
Dermal Toxicity LD₅₀ (rabbit):	> 2,020 mg/kg	III EPA Tox Category
Inhalation Toxicity LC₅₀ (rat):	> 6.483 mg/L (4 hr.)	IV EPA Tox Category
Eye Irritation (rabbit):	Non-irritating	IV EPA Tox Category
Skin Irritation (rabbit):	Non-irritating	IV EPA Tox Category
Skin Sensitization (guinea pig):	Non-sensitizer	

TOXICITY OF ACTIVE INGREDIENTS: RESMETHRIN:

Sub chronic (target organ effects)

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

Chronic Toxicity and Carcinogenicity

Resmethrin did not produce any evidence of toxic effects when fed to rats at concentrations of up to 500 ppm for two years.

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

Reproductive and Developmental Toxicity

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 over three successive generations.

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

Neurotoxicity

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

Mutagenicity (Genetic Effects)

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

CARCINOGENICITY: NTP: No IARC: No OSHA: No

SECTION 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 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. Do not contaminate water when disposing of equipment wash waters.

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Pesticides wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed by use according to label instructions, contact your State Pesticide Agency or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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.

SECTION 14: TRANSPORT INFORMATION

D.O.T. PROPER SHIPPING NAME: Flammable liquid, n.o.s. (Petroleum distillate), Class 3, UN 1993, PG III

RQ: Pyrethrins

D.O.T. HAZARD CLASS: 3

U.N./N.A. NUMBER: 1993

REMARKS: NA

EXEMPTION REQUIREMENT: NA

NOTE: The RQ notation is not required for a net quantity of Pyrethrins is one pound or less.

SECTION 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: 73049-78

OTHER U.S. FEDERAL REGULATIONS:

Chemical Name	RCRA-U Series Waste:	Clean Water Act-Hazardous Substances:	Clean Water Act Section 307:
Resmethrin (10453-86-8)	None	Not listed	Not listed

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Light Aromatic Petroleum Solvent (64742-95-6)	None	Not listed	Not listed
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CWA Section 311: Not listed

Chemical Name	SARA 313 Chemicals:	SARA Section 302:	CERCLA reportable Quantity (RQ):
Resmethrin (10453-86-8)	1.0% de minimis concentration	Not listed	None
Light Aromatic Petroleum Solvent (64742-95-6)	Not listed	Not listed	None

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 2 (Probably carcinogen)	IARC- Group 2B (possibly carcinogenic)	NTP Carcinogen List
Resmethrin (10453-86-8)	No	No	No	Not listed
Light Aromatic Petroleum Solvent (64742-95-6)	No	No	No	Not listed

STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Rights 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 (10453-86-8)	Developmental toxicity, initial date 11/6/98	Not listed	SN 3450
Light Aromatic Petroleum Solvent (64742-95-6)	Not listed	Not listed	Not listed

Chemical Name	MN Hazardous Substance list	MA Rights to Know	MI Critical Materials List
Resmethrin (10453-86-8)	Not listed	Not listed	Not listed
Light Aromatic Petroleum Solvent (64742-95-6)	Not listed	Not listed	Not listed

Chemical Name	NJ Right to Know	PA Right to Know	RI Right to Know
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Resmethrin (10453-86-8)	Not listed	Not listed	Not listed
Light Aromatic Petroleum Solvent (64742-95-6)	Not listed	Not listed	Not listed

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 (10453-86-8)	Not listed	Present	233-940-7
Light Aromatic Petroleum Solvent (64742-95-6)	Not listed	Present	265-149-8

CANADIAN REGULATIONS:

NFPA HAZARD RATING - HEALTH: 1 Slight
 - FIRE: 2 Moderate
 - REACTIVITY: 0 Negligible
 - SPECIAL: -

RATINGS:

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4).

These values are obtained using professional judgment. Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with the information contained in the product MSDS.

* RQ: Reportable Quantity

** RCRA waste codes must be determined on a case-by-case basis (i.e., spill, processing waste, etc.).

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

SECTION 16: OTHER INFORMATION

REASON FOR ISSUE: Correction of Dermal Toxicity, update regulatory format
REVISION NUMBER: 1
REVISION DATE: 2/6/2006
SUPERSEDES DATE: 5/20/2004
EPA REGISTRY NUMBER: 73049-78
MSDS NUMBER: ENV-0095

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.

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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 CORPORATION TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

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