



1. Identification

Product identifier	WISDOM® PRO L&H	
Other means of identification		
SDS number	317	
Product registration number	5481-682	
Recommended use	Pyrethroid type insecticide/r	niticide.
Recommended restrictions	No other uses are advised. Keep out of the Reach of Cl	hildren!
EPA Registration number	EPA: 5481-682	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	AMVAC Chemical Corporat	ion
Address	4695 MacArthur Court	
	Suite 1200	
	Newport Beach, CA 92660 United States	
Telephone	AMVAC Chemical Corp	949-260-1200
	AMVAC Chemical Corp	949-260-6270(FAX)
	Product Use	888-462-6822
Website	www.amvac.com	
E-mail	CustServ@amvac.com	
Emergency phone number	Medical	888-681-4261
	CHEMTREC® (USA+Canada)	800-424-9300
	CHEMTREC® (Outside USA)	+1-703-527-3887

2. Hazard(s) identification

Physical hazardsNot classified.Health hazardsAcute toxicity, oralCategoryEnvironmental hazardsHazardous to the aquatic environment, acute hazardCategory	
Environmental hazards Hazardous to the aquatic environment, acute Category	
	1
Hazardous to the aquatic environment, Category long-term hazard	1
OSHA defined hazards Not classified.	
Label elements	
Signal word Warning	
Hazard statement Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
Precautionary statement	
PreventionDo not eat, drink or smoke when using this product. Avoid release to the environment. Wash thoroughly after handling.	
Response If swallowed: Call a poison center/doctor if you feel unwe Rinse mouth. Collect spillage.	l.
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Disposal Hazard(s) not otherwise classified (HNOC)	Dispose of contents/container in accordance with local/regional/national/international regulations. None known.
Supplemental information	This is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced in section 15. The pesticide label also includes other important information, including directions for use.
3. Composition/informat	ion on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Bifenthrin	Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl] -2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	82657-04-3	7.9
Additional components			
Chemical name	Common name and synonyms	CAS number	%
Undisclosed Ingredients		N/A	92.1
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a po breathing, call 911 or an ambulance, then give art possible. Call a poison center or doctor/physician	tificial respiration, preferab	ly mouth-to-mouth if
Skin contact	Remove and isolate contaminated clothing and sh for at least 15 minutes. Call a physician or poison		
Eye contact	Immediately flush eyes with plenty of water for at present, after the first 5 minutes, then continue rin center for treatment advice.		
Ingestion	Call a physician or poison control center immedia swallow. Do not induce vomiting without advice from mouth to an unconscious person.		
Most important symptoms/effects, acute and delayed	Dermatitis. Rash. Direct contact with eyes may ca	use temporary irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Bifenthrin is moderately toxic if swallowed and has a low dermal toxicity. Gastric lavage using an endotracheal tube may be preferred to vomiting. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Keep victim warm. Keep victim under observation. Symptoms may be delayed.		
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon d	lioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protect	ctive clothing must be worr	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so w	ithout risk.	
Specific methods	Use standard firefighting procedures and consider	r the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		

6. Accidental release measures

v. Accidental release meas	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for reuse.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Avoid release to the environment. Wash hands

Conditions for safe storage,
including any incompatibilitiesthoroughly after handling.Store in original tightly closed container. Store in a well-ventilated place. Store away from
incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

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Occupational exposure limits None known.	
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures,	such as personal protective equipment
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Long-sleeved shirt and long pants or coveralls, socks and closed toe shoes are required.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Not available.
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Opaque beige
Odor	Bland.
Odor threshold	None established.
рН	6.7
Melting point/freezing point	28.4 °F (-2 °C)
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	> 212 °F (100 °C)
Evaporation rate	Not available

Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Heavier than air.
Relative density	1.024 @ 20°C
Solubility(ies)	
Solubility (water)	Dispersible
Solubility (solvents)	The active ingredient in this product is soluble in aromatic solvents.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	The data presented in this section are typical values and should not be construed as a specification.
Density	8.53 lbs/gal
Flammability class	Combustible IIIB

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	This product may emit hazardous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAR SELF-CONTAINED BREATHING APPARATUS when these conditions are present.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause sensitization by skin contact.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Contact with Bifenthrin may occasionally produce skin sensitization such as rashes, numbing, burning or tingling.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.		
Product	Species		Test Results
WISDOM® PRO L&H			
<u>acute</u>			
dermal			
LD50	Rabbit		> 5050 mg/kg
inhalation			
LC50	Rat		> 2.65 mg/L, 4 hr
oral			
LD50	Rat		310 mg/kg
Skin corrosion/irritation	Non-irritating (rabbit).		
Irritation Corrosion -	- Skin		
WISDOM® PRO	L&H	Result: Non irritating Species: rabbit Organ: skin	

Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Irritation Corrosion - Eye WISDOM® PRO L&F		Result: irritating Species: rabbit Organ: eye Severity: Minimally	
Respiratory or skin sensitization Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	Not a skin sensitizer.		
Skin sensitization WISDOM® PRO L&⊦	ł	LLNA Result: not a sensitize Species: Mouse Organ: skin	r
Germ cell mutagenicity	Not classified.		
Carcinogenicity	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen. Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response however was considered equivocal and not evidence of a clear compound related effect. The doses that produced this oncogenic effect in laboratory animals greatly exceeds human exposure levels for the recommended use of Bifenthrin products. Consequently, the oncogenic potential in humans is extremely weak or non-existent.		
IARC Monographs. Overall E Not listed. OSHA Specifically Regulated Not listed.			
US. National Toxicology Pro Not listed.	gram (NTP) Report on Carci	nogens	
Reproductive toxicity	This product is not expected	to cause reproductive or	developmental effects.
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	No specific target organ toxic	city is expected after repe	eated exposure.
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be	harmful.	
12. Ecological information			
Ecotoxicity	Very toxic to aquatic life with	long lasting effects.	
Components	Species		Test Results
Bifenthrin (CAS 82657-04-3) Aquatic Acute			
Crustacea	· ·	eriodaphnia dubia) aphnia magna)	>= 0 - <= 0.0002 mg/l, 48 hours >= 0.0001 - <= 0.0009 mg/l, 48 hours
Persistence and degradability Bioaccumulative potential	No data is available on the d	egradability of this produ	ct.
Partition coefficient n-octand Bifenthrin	ol / water (log Kow)	< 6	
Mobility in soil	No data available.		
Other adverse effects			epletion, photochemical ozone creation iial) are expected from this component.
13. Disposal consideration	IS		
Disposal instructions	this material to drain into sev	vers/water supplies. Do n ner. Dispose of contents/	t licensed waste disposal site. Do not allow ot contaminate ponds, waterways or ditches container in accordance with
Local disposal regulations	Dispose in accordance with	-	

Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal methods/information).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

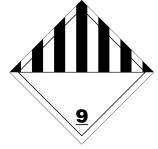
IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Read safety instructions, SDS	and emergency procedures before handling.

IMDG

UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	
Marine pollutant	Yes
EmS	Not assigned.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ransport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
he IBC Code	
	UN proper shipping name Transport hazard class(es) Class Subsidiary risk Label(s) Packing group Environmental hazards Marine pollutant EmS

IATA; IMDG



Marine pollutant



US federal regulations

IMDG Regulated Marine Pollutant.

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. 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 before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.

PHYSICAL OR CHEMICAL HAZARDS

Do not apply water-based dilutions of this product to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of the possible shock hazard.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Exp Not regulated.	port Notification (40 CFR 707, Subpt. D)	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency relea	se notification	
Not regulated.		
Not listed.	ed Substances (29 CFR 1910.1001-1053)	
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazard	dous substance	
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Acute toxicity (any route of exposure)	
SARA 313 (TRI reporting)		
Chemical name	CAS number	% by wt.
Bifenthrin	82657-04-3	7.9
Other federal regulations		
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
Clean Air Act (CAA) Sectior	112(r) Accidental Release Prevention (40 0	CFR 68.130)
Not regulated.		
Material name: WISDOM® PRO L&H		

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name
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On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	Feb-21-2023
Revision date	Feb-21-2023
Version #	1.0
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
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