

SAFETY DATA SHEET

1. Identification

Product identifier BIDRIN® XPII

Other means of identification

SDS number 368

Product registration

number

5481-9024

Recommended use Broad-Spectrum Cotton Insecticide (contains both a pyrethroid and an organophosphate

This is a Restricted Use Pesticide and is for use by licensed applicators only. Recommended restrictions

Keep out of the Reach of Children!

EPA Registration number EPA: 5481-9024

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

AMVAC Chemical Corporation Company name

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)

Website www.amvac.com

E-mail CustServ@amvac.com

Emergency phone number Medical 888-681-4261

CHEMTREC® 800-424-9300

(USA+Canada)

Product Use 888-462-6822 CHEMTREC® (Outside +1-703-527-3887

USA)

2. Hazard(s) identification

Physical hazards Flammable liquids Category 4

Health hazards Acute toxicity, oral Category 2 Acute toxicity, dermal Category 3

> Acute toxicity, inhalation Category 2 Serious eye damage/eye irritation Category 2B Carcinogenicity Category 2

Specific target organ toxicity, repeated

exposure

Category 1 (nervous system)

Environmental hazards Hazardous to the aquatic environment, acute Category 1

Hazardous to the aquatic environment,

long-term hazard

Category 1

Not classified. **OSHA** defined hazards

Label elements



Signal word Danger

Material name: BIDRIN® XPII SDS US

931 Version #: 3.0 Revision date: Sep-02-2020 Issue date: May-08-2015

Hazard statement Combustible liquid.

Fatal if swallowed.

Toxic in contact with skin.

Fatal if inhaled. Causes eye irritation.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist or vapor.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust or mists. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear respiratory protection.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Rinse mouth.

IF ON SKIN: Wash with plenty of water.

Take off immediately all contaminated clothing and wash it before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a poison center/doctor. Specific treatment is urgent (see product label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Storage

> Keep cool. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise classified (HNOC)

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/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Dicrotophos	2-Dimethylcarbamoyl-1-methylvinyl dimethyl phosphate Bidrin®	141-66-2	43.1
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	10.8

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer

oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the

substance. Call a physician or poison control center immediately.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Skin contact

poison control center immediately. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Material name: BIDRIN® XPII

Ingestion

Most important symptoms/effects, acute and delayed IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Have person sip a glass of water if able to swallow. Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance.

This product is a Cholinesterase Inhibitor. Preexisting skin or respiratory disorders may be aggravated by exposure to components of this product. Preexisting conditions which lower cholinesterase levels increase vulnerability to cholinesterase depression. these include: (for plasma) chronic alcoholism; malnutrition; dermatomyositis; existing toxicity from exposure to carbon disulfide; benzalkonium salts, organic mercury compounds, ciguatoxins or solanines; and (for RBC) hemolytic anemia.

Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, tightness in chest, weakness, muscle twitching and confusion; in extreme cases unconsciousness, convulsions, severe respiratory depression and death may occur.

Repeated exposures to small doses of organophosphates may lower the cholinesterase to levels where the above symptoms of acute overexposure are observed.

Indication of immediate medical attention and special treatment needed

This product is an Organophosphate (OP) Insecticide. Do not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing, including shoes, as a hazardous waste. Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning. In the USA and other countries, contact your local or national poison control center for more information. Establish airway and oxygenation. IV Atropine sulfate is the antidote of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, Atropine Sulfate should be injected at 10 minutes intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion, in 250 cc of saline over a 15 to 20 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5% solution in water over not less than 2 minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 0.25 grams. Avoid morphine, aminophylline, phenothiazine, reserpine, furosemide and ethacrynic acid. Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may without warning cause prolonged susceptibility very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been attained as determined by a blood test. Bathe and shampoo contaminated skin and hair. If ingested, empty stomach; activated charcoal is useful to further to further limit absorption. If victim is alert, Syrup of Ipecac (2 tablespoons in adults, 1 tablespoon in small children) is indicated. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

General information

If you feel unwell, seek medical advice (show the label where possible). This product is a severe Cholinesterase Inhibitor. A physician should be contacted in all cases of exposure to the technical and its formulations. 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. Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from

The product is c

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. Heating or burning may release highly toxic vapors or fumes. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup, which could result in container rupture. Do not breathe gas, fumes, or vapor.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Immediately evacuate personnel to safe areas. In case of fire and/or explosion do not breathe fumes. Keep upwind. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

Specific methods
General fire hazards

the chemical

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Combustible liquid.

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Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not get in eyes, on skin, on clothing. Keep out of low areas. 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. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water.

Large Spills: Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Keep away from food, drink and animal feedstuffs. Keep out of the reach of children. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Handle and open container with care. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
Dicrotophos (CAS 141-66-2)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide to C	Chemical Hazards		
Components	Туре	Value	
Dicrotophos (CAS 141-66-2)	TWA	0.25 mg/m3	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

Dicrotophos (CAS 141-66-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Dicrotophos (CAS 141-66-2)

Can be absorbed through the skin.

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. Ensure adequate ventilation, especially in confined areas. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Face-shield. Chemical respirator with organic vapor cartridge and full facepiece.

Material name: BIDRIN® XPII

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Wear chemical resistant gloves (preferably nitrile).

Other Wear appropriate chemical resistant clothing (see label). Wear appropriate chemical resistant

clothing. Use of an impervious apron is recommended. It may provide little or no thermal

protection.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using, do not eat, drink or smoke. 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.

9. Physical and chemical properties

Appearance Light yellow to dark amber liquid

Physical stateLiquid.FormLiquid.ColorNot available.

Odor Mild ester
Odor threshold Not available.

pH 2.7 - 2.8 (Dicrotophos, 1% in water)

Melting point/freezing point Not determined (mixture)
Initial boiling point and boiling Not determined (mixture)

range

Flash point > 180 °F (> 82 °C) Cleveland Open Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

r Not available.

(%)

Flammability limit - upper Not a

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 2.90E-03 Pa 2.2 x 10-5 torr (dicrotophos)

Vapor densityHavier than airRelative densityNot available.

Solubility(ies)

Solubility (water) Emulsifiable

Solubility (solvents) Ketones, esters, aromatic hydrocarbons

Partition coefficient 6 (Bifenthrin)

(n-octanol/water)

E-isomer = 2.445; Z-isomer = .000481 (dicrotophos)

Auto-ignition temperature347 °F (175 °C)Decomposition temperatureNot available.ViscosityNot available.

Other information

Bulk density 9.51 lb/gal

Density 1.209 g/cm3 estimated

Explosive properties Not explosive.

Flammability class Combustible IIIA estimated

Oxidizing properties Not oxidizing.

Specific gravity 1.14 @ 20 °C

Material name: BIDRIN® XPII SDS US

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. Hazardous polymerization does not occur. Possibility of hazardous

reactions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid Conditions to avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known. Emits hazardous fumes and smoke of unknown composition when heated to decomposition or burned.

11. Toxicological information

Information on likely routes of exposure

Fatal if inhaled. Inhalation

Toxic in contact with skin. Skin contact Causes eye irritation. Eye contact Ingestion Fatal if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics This is a cholinesterase inhibiting organophosphorous pesticide.

Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision,

tightness in chest, weakness, muscle twitching and confusion; in extreme cases,

unconsciousness, convulsions, severe respiratory depression and death may occur. Product may

cause slight but temporary irritation to the eyes and may cause irritation of the skin.

Repeated exposures to small doses of organophosphates may lower the cholinesterase to levels

where the above symptoms of acute overexposure are observed.

Information on toxicological effects

Fatal if inhaled. Toxic in contact with skin. Fatal if swallowed. **Acute toxicity**

NOTE: There is currently no information available for this premix. The following information is available for the two active substances, Dicrotophos and Bifenthrin, and is included here to assist

> 11 mg/kg (males) 8 mg/kg (females)

	the user in determining the possible characteristics of the product.		
Components	Species	Test Results	
Bifenthrin (CAS 82657-04-3	3)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2020 mg/kg	
Inhalation			
LC50	Rat	1.1 mg/l, 4 hours Males	
		0.8 mg/l, 4 hours Females	
Oral			
LD50	Rat	175 mg/kg	
Dicrotophos (CAS 141-66-2	2)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	876 mg/kg (males)	
		487 mg/kg (females)	
Inhalation			
LC50	Rat	> 0.059 mg/l	
Oral			

Material name: BIDRIN® XPII SDS US

Causes eye irritation. Causes mild eye irritation.

irritation

LD50

Skin corrosion/irritation

Serious eye damage/eye

Causes slight skin irritation.

Rat

Respiratory or skin sensitization

Respiratory sensitization No data available due to high toxicity

Skin sensitization Skin sensitizer.

Germ cell mutagenicityNo data available due to high toxicity.

Carcinogenicity Suspected of causing cancer. 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.

Dicrotophos has shown an increased incidence of thyroid follicular cell adenomas in male mice receiving 50 ppm dicrotophos, the highest dose level tested in a two year study. EPA's Cancer Classification o for Dicrotophos states only 'Suggestive Evidence of Carcinogenicity but Not Sufficient to Assess Human Carcinogenic Potential.' None of the following have classified

Dicrotophos as carcinogenic: IARC, NTP, OSHA, or ACGIH.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Dicrotophos has shown effects on reproductive performance, pup survival and pup growth but only

at dose levels (5 to 25 ppm) that also showed paternal toxicity in a rat multigeneration study.

Specific target organ toxicity -

single exposure

No specific target organ toxicity is expected after single exposure.

Specific target organ toxicity -

repeated exposure

Componente

Causes damage to organs (nervous system) through prolonged or repeated exposure. Causes

Toot Doculto

damage to organs through prolonged or repeated exposure (Bifenthrin).

Aspiration hazard Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Species

Components		Species	lest Results
Bifenthrin (CAS 82657	'-04-3)		
Aquatic			
Crustacea	LC50	Water flea (Ceriodaphnia dubia)	0 - 0.0002 mg/l, 48 hours
		Water flea (Daphnia magna)	0.0001 - 0.0009 mg/l, 48 hours
Dicrotophos (CAS 141	-66-2)		
Aquatic			
Crustacea	EC50	Water flea (Simocephalus serrulatus)	0.21 - 0.32 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	2.8 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potentialNo data available for this product.

Partition coefficient n-octanol / water (log Kow)

BIDRIN® XPII 6, (Bifenthrin)
Dicrotophos 2.45, (E-isomer)

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this product.

Material name: BIDRIN® XPII sps us

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site according to all

> applicable regulations. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with all applicable local/regional/national/international regulations. Dispose of contents/container in

accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

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. Dispose of in accordance with local 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). Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal according to all applicable regulations. 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

UN2902 **UN** number

UN proper shipping name Transport hazard class(es) Pesticides, liquid, toxic, n.o.s. (Dicrotophos, Bifenthrin), MARINE POLLUTANT

Class 6.1(PGI, II)

Subsidiary risk 6.1 Label(s) Ш **Packing group**

Environmental hazards

Yes Marine pollutant

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IB2, T11, TP2, TP13, TP27 Special provisions

Packaging exceptions 153 Packaging non bulk 202 243 Packaging bulk

IATA

UN2902 **UN number**

UN proper shipping name Transport hazard class(es) Pesticides, liquid, toxic, n.o.s. (Dicrotophos, Bifenthrin)

Class 6.1(PGI, II)

Subsidiary risk Label(s) 6.1 Ш Packing group **Environmental hazards** Yes

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN2902

UN proper shipping name Transport hazard class(es) Pesticides, liquid, toxic, n.o.s. (Dicrotophos, Bifenthrin), MARINE POLLUTANT

Class

6.1(PGI, II)

Subsidiary risk Label(s) 6.1 Packing group Ш

Material name: BIDRIN® XPII SDS US

Environmental hazards

Marine pollutant Yes

Not available. **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Severe Marine Pollutant. IMDG Regulated Marine Pollutant. DOT Regulated Severe Marine Pollutant. DOT Regulated Marine Pollutant.

Material name: BIDRIN® XPII SDS US

15. Regulatory information

US federal regulations

DANGER: Do not get in eyes, on skin, or on clothing. 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 as a RESTRICTED USE PESTICIDE. 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.

Fatal if swallowed, inhaled or absorbed through the skin. Causes skin burns and irreversible eye damage, Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to fish, aquatic invertebrates, birds and mammals. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of lakes, ponds, and streams. Do not contaminate water when disposing of equipment washwater or rinsate.

PHYSICAL OR CHEMICAL HAZARDS

Keep away from heat and open flame. 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.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

DICROTOPHOS (CAS 141-66-2)

100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Dicrotophos	141-66-2	100	100	_	

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

categories

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Bifenthrin	82657-04-3	10.8	

Material name: BIDRIN® XPII sps us

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (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 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 May-08-2015 **Revision date** Sep-02-2020 References **ACGIH**

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents ACGIH®: American Conference of Governmental Industrial Hygienists

Comprehensive Environmental Response, Compensation, and Liability Act CERCLA:

Environmental Protection Agency EPA:

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

International Agency for Research on Cancer IARC:

National Toxicology Program NTP:

Occupational Safety and Health Agency OSHA:

SARA: Superfund Amendments and Reauthorization Act

Toxic Substances Control Act TSCA: DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods International Air Transport Association IATA:

Version # 3.0

HMIS® ratings Health: 3*

Flammability: 2 Physical hazard: 0

Health: 4 NFPA ratings

Flammability: 2 Instability: 0

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Material name: BIDRIN® XPII SDS US

Disclaimer

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Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Material name: BIDRIN® XPII sps us