

**1. Identification**

|   |  |                   |
|---|--|-------------------|
| <b>Product identifier</b>                                     | <b>BIDRIN® 8</b>   |                   |
| <b>Other means of identification</b>                          |  |                   |
| <b>SDS number</b>   | 242  |                   |
| <b>Product registration number</b>                            | 5481-448   |                   |
| <b>Recommended use</b>  | Organophosphate insecticide.   |                   |
| <b>Recommended restrictions</b>                               | This is a Restricted Use Pesticide and is for use by licensed applicators only. Keep out of the Reach of Children! |                   |
| <b>EPA Registration number</b>                                | EPA: 5481-448  |                   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |                   |
| <b>Manufacturer</b>   |  |                   |
| <b>Company name</b>   | AMVAC Chemical Corporation   |                   |
| <b>Address</b>  | 4695 MacArthur Court<br>Suite 1200<br>Newport Beach, CA 92660  |                   |
| <b>Telephone</b>  | AMVAC Chemical Corp  | 949-260-1200      |
|   | AMVAC Chemical Corp  | 949-260-6270(FAX) |
| <b>Website</b>  | www.amvac.com  |                   |
| <b>E-mail</b>   | CustServ@amvac.com   |                   |
| <b>Emergency phone number</b>                                 | Medical  | 888-681-4261      |
|   | CHEMTREC® (USA+Canada)   | 800-424-9300      |
|   | Product Use  | 888-462-6822      |
|   | CHEMTREC® (Outside USA)  | +1-703-527-3887   |

**2. Hazard(s) identification**

|                              |                                   |             |
|------------------------------|-----------------------------------|-------------|
| <b>Physical hazards</b>      | Flammable liquids                 | Category 3  |
| <b>Health hazards</b>        | Acute toxicity, oral              | Category 2  |
|                              | Acute toxicity, dermal            | Category 3  |
|                              | Acute toxicity, inhalation        | Category 2  |
|                              | Serious eye damage/eye irritation | Category 2B |
|                              | Sensitization, skin               | Category 1  |
| <b>Environmental hazards</b> | Not classified.                   |             |
| <b>OSHA defined hazards</b>  | Not classified.                   |             |

**Label elements**



|                                |  |
|--------------------------------|--|
| <b>Signal word</b>             | Danger   |
| <b>Hazard statement</b>        | Flammable liquid and vapor. Fatal if swallowed. Fatal if inhaled. Toxic in contact with skin. Causes eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.  |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. |

|  |   |
|--|---|
| <b>Response</b>                                  | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. 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 for extinction. Collect spillage. |
| <b>Storage</b>                                   | Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.  |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.   |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | 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<br>Bidrin® | 141-66-2   | 82    |
| Isopropanol   | 2-Propanol; IPA   | 67-63-0    | <15.0 |

### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | 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.  |
| <b>Skin contact</b>                                       | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.   |
| <b>Eye contact</b>  | 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.   |
| <b>Ingestion</b>  | 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. |
| <b>Most important symptoms/effects, acute and delayed</b> | 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.              |

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.

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 minute 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 to 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 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**

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**

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

**Unsuitable extinguishing media**

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

**Specific hazards arising from the chemical**

This product will emit toxic fumes when burned, including carbon monoxide. Vapors of the unburned product may also be hazardous. Contact with the fumes and vapors should be avoided by staying upwind and by wearing impervious clothing and positive pressure self-contained breathing apparatus. Vapors may travel considerable distance to a source of ignition and flash back.

**Special protective equipment and precautions for firefighters**

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

**Fire fighting equipment/instructions**

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

**Specific methods**

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

**General fire hazards**

Flammable liquid and vapor.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not get in eyes, on skin, on clothing. Do not breathe mist. 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.

## Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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.

**Large Spills:** 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. Clean the area as described for a small spill.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Decontaminate the area and equipment with dilute alkali or ammonia (less than 5%) and detergent.

Never return spills to original containers for re-use.

## 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

Keep away from food, drink and animal feedstuffs. Keep out of the reach of children. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Do not breathe mist or vapor. Do not use in areas without adequate ventilation. Do not get in eyes, on skin, or on clothing. 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 locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. 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.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                | Type | Value                            |
|---------------------------|------|----------------------------------|
| Isopropanol (CAS 67-63-0) | PEL  | 980 mg/m <sup>3</sup><br>400 ppm |

#### US. ACGIH Threshold Limit Values

| Components                 | Type | Value                  | Form                          |
|----------------------------|------|------------------------|-------------------------------|
| Dicrotophos (CAS 141-66-2) | TWA  | 0.05 mg/m <sup>3</sup> | Inhalable fraction and vapor. |
| Isopropanol (CAS 67-63-0)  | STEL | 400 ppm                |                               |
|                            | TWA  | 200 ppm                |                               |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components                 | Type | Value                             |
|----------------------------|------|-----------------------------------|
| Dicrotophos (CAS 141-66-2) | TWA  | 0.25 mg/m <sup>3</sup>            |
| Isopropanol (CAS 67-63-0)  | STEL | 1225 mg/m <sup>3</sup><br>500 ppm |
|                            | TWA  | 980 mg/m <sup>3</sup><br>400 ppm  |

### Biological limit values

#### ACGIH Biological Exposure Indices

| Components                | Value   | Determinant | Specimen | Sampling Time |
|---------------------------|---------|-------------|----------|---------------|
| Isopropanol (CAS 67-63-0) | 40 mg/l | Acetone     | Urine    | *             |

\* - For sampling details, please see the source document.

## Exposure guidelines

### US - California OELs: Skin designation

Dicrotophos (CAS 141-66-2) Can be absorbed through the skin.

### US - Minnesota Haz Subs: Skin designation applies

Dicrotophos (CAS 141-66-2) Skin designation applies.

### US - Tennessee OELs: Skin designation

Dicrotophos (CAS 141-66-2) Can be absorbed through the skin.

### 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** Not available.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Not available.

### Skin protection

**Hand protection** Not available.

**Other** Not available.

**Respiratory protection** When respiratory protection is required, or concentrations may exceed the PEL, use an approved air-purifying respirator equipped with organic vapor cartridges or canisters. It is recommended that the canisters be changed whenever breakthrough occurs or eight (8) hours of use has occurred, whichever comes first. For emergency and other conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-airline with auxiliary self-contained air supply.

**Thermal hazards** Not applicable.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Not available.

**Color** Light yellow to dark amber

**Odor** Mild ester

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** 100 - 109 °F (38 - 43 °C)

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 2.13E-04 hPa estimated

**Vapor density** Heavier than air

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** Miscible

**Solubility (solvents)** Soluble in ketones, esters, and aromatic hydrocarbons

**Auto-ignition temperature** Not available.

|                                  |                        |
|----------------------------------|------------------------|
| <b>Decomposition temperature</b> | Not available.         |
| <b>Viscosity</b>                 | Not available.         |
| <b>Other information</b>         |                        |
| <b>Bulk density</b>              | 9.9 lb/gal @ 20 C      |
| <b>Density</b>                   | 1.19 g/ml @ 20 C       |
| <b>Flammability class</b>        | Flammable IC estimated |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | Not available.   |
| <b>Chemical stability</b>                 | Not available.   |
| <b>Possibility of hazardous reactions</b> | Not available.   |
| <b>Conditions to avoid</b>                | Not available.   |
| <b>Incompatible materials</b>             | Not available.   |
| <b>Hazardous decomposition products</b>   | Emits hazardous fumes and smoke of unknown composition when heated to decomposition or burned. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                |
|---------------------|----------------|
| <b>Inhalation</b>   | Not available. |
| <b>Skin contact</b> | Not available. |
| <b>Eye contact</b>  | Not available. |
| <b>Ingestion</b>    | Not available. |

### Symptoms related to the physical, chemical and toxicological characteristics

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.

Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped.

### Information on toxicological effects

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

| Components                               | Species              | Test Results                             |
|--|----------------------|--|
| Dicrotophos (CAS 141-66-2)               |                      |  |
| <b>Acute</b>                             |                      |  |
| <b>Dermal</b>                            |                      |  |
| LD50                                     | Rabbit               | 876 mg/kg (males)<br>487 mg/kg (females) |
| <b>Inhalation</b>                        |                      |  |
| LC50                                     | Rat                  | > 0.059 mg/l                             |
| <b>Oral</b>                              |                      |  |
| LD50                                     | Rat                  | 11 mg/kg (males)<br>8 mg/kg (females)    |
| Isopropanol (CAS 67-63-0)                |                      |  |
| <b>Acute</b>                             |                      |  |
| <b>Dermal</b>                            |                      |  |
| LD50                                     | Rabbit               | 12800 mg/kg                              |
| <b>Oral</b>                              |                      |  |
| LD50                                     | Rat                  | 4.7 g/kg                                 |
| <b>Skin corrosion/irritation</b>         | Not a skin irritant. |  |
| <b>Serious eye damage/eye irritation</b> | Not available.       |  |

## Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Skin sensitizer.

**Germ cell mutagenicity** Not available.

**Carcinogenicity** 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 of 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** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Components                 |      | Species                                       | Test Results               |
|----------------------------|------|---|----------------------------|
| Dicrotophos (CAS 141-66-2) |      |   |                            |
| <b>Aquatic</b>             |      |   |                            |
| Crustacea                  | EC50 | Water flea ( <i>Simocephalus serrulatus</i> ) | 0.21 - 0.32 mg/l, 48 hours |
| Fish                       | LC50 | Bluegill ( <i>Lepomis macrochirus</i> )       | 2.8 mg/l, 96 hours         |

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

### Partition coefficient n-octanol / water (log Kow)

Dicrotophos 2.45, (E-isomer)

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Not available.

**Waste from residues / unused products** Dispose of container and residues in accordance with all applicable regulations.

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

## 14. Transport information

### DOT

**UN number** UN3017

**UN proper shipping name** Organophosphorus pesticides, liquid, toxic, flammable (Dicrotophos, Isopropanol), MARINE POLLUTANT

### Transport hazard class(es)

**Class** 6.1(PGI, II)

**Subsidiary risk** 3

**Label(s)** 6.1, 3

**Packing group** II

### Environmental hazards

**Marine pollutant** Yes

**Special precautions for user** Not available.

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Special provisions</b>   | IB2, N76, T11, TP2, TP13, TP27 |
| <b>Packaging exceptions</b> | 153                            |
| <b>Packaging non bulk</b>   | 202                            |
| <b>Packaging bulk</b>       | 243                            |

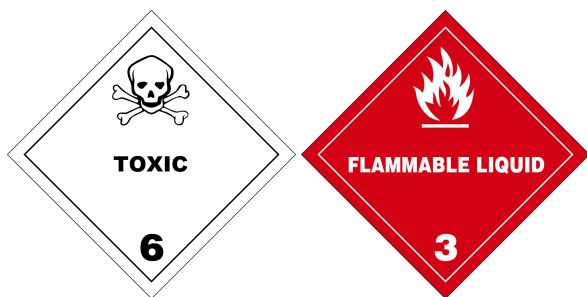
**IATA**

|                                     |  |
|-------------------------------------|--|
| <b>UN number</b>                    | UN3017   |
| <b>UN proper shipping name</b>      | Organophosphorus pesticides, liquid, toxic, flammable (Dicrotophos, Isopropanol) |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 6.1(PGI, II)   |
| <b>Subsidiary risk</b>              | 3  |
| <b>Label(s)</b>                     | 6.1, 3   |
| <b>Packing group</b>                | II   |
| <b>Environmental hazards</b>        | Yes  |
| <b>Special precautions for user</b> | Not available.   |
| <b>Other information</b>            |  |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.   |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.   |

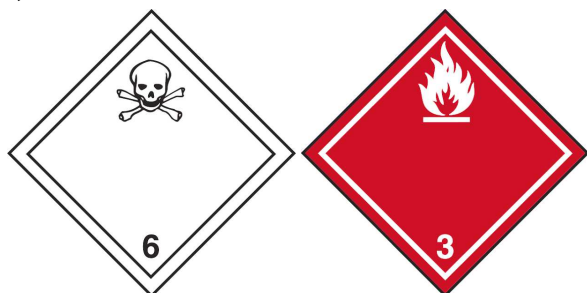
**IMDG**

|   |  |
|---|--|
| <b>UN number</b>  | UN3017   |
| <b>UN proper shipping name</b>  | Organophosphorus pesticides, liquid, toxic, flammable (Dicrotophos, Isopropanol), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>  | 6.1(PGI, II)   |
| <b>Subsidiary risk</b>  | 3  |
| <b>Label(s)</b>   | 6.1, 3   |
| <b>Packing group</b>  | II   |
| <b>Environmental hazards</b>  |  |
| <b>Marine pollutant</b>   | Yes  |
| <b>EmS</b>  | Not available.   |
| <b>Special precautions for user</b>   | Not available.   |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not available.   |

**DOT**



**IATA; IMDG**





Marine pollutant



General information

DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

United States Environmental Protection Agency (EPA) Labeling Requirements: 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.

DANGER: Fatal if swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to birds and mammals. Runoff 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. This product is toxic to bees exposed to direct treatment on blooming crops or weeds. See the label for more complete information. Do not apply if bees are visiting the treatment area. Do not spray border areas. Keep border areas within 25 feet of field free of bird feed and shelter. Birds feeding in treated areas may be killed. Do not use whenever large flocks of birds are in the vicinity or when they are noted feeding in or around fields.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

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)

Isopropanol (CAS 67-63-0) 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 categories** Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation  
Respiratory or skin sensitization  
Hazard not otherwise classified (HNOC)

**SARA 313 (TRI reporting)**

| <b>Chemical name</b> | <b>CAS number</b> | <b>% by wt.</b> |
|----------------------|-------------------|-----------------|
| Isopropanol          | 67-63-0           | <15.0           |

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

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Isopropanol (CAS 67-63-0) Low priority

**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](http://www.P65Warnings.ca.gov).

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Isopropanol (CAS 67-63-0)

**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>                         | <b>On inventory (yes/no)*</b> |
|-----------------------------|---|-------------------------------|
| 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** Feb-12-2019  
**Version #** 3.1  
**HMIS® ratings** Health: 3  
Flammability: 3  
Physical hazard: 0  
**NFPA ratings** Health: 4  
Flammability: 3  
Instability: 0

**Disclaimer**

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**Revision information**

Product and Company Identification: Product and Company Identification

Hazard(s) identification: GHS Signal Words

First-aid measures: Ingestion

Ecological information: Ecotoxicity

Other information, including date of preparation or last revision: Disclaimer