SAFETY DATA SHEET



1. Identification

Product identifier Dibrom 8 Emulsive

Other means of identification

SDS number 254

Product registration

number

5481-479

Synonyms Dibrom 90 EC * Dibrom 94.4 EC * Dibrom 58 EC

Recommended use Organophosphate insecticide.

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

No other uses are advised.

Keep out of the Reach of Children!

EPA Registration number EPA: 5481-479

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name AMVAC Chemical Corporation

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 3 Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Carcinogenicity Category 2 Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Category 1
Category 1

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Combustible liquid.

Toxic if swallowed. Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage. Suspected of causing cancer.

May be fatal if swallowed and enters airways.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain

Obtain special instructions before use.

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

Use only outdoors or in a well-ventilated area.

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

Do not breathe mist or vapor.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Contaminated work clothing must not be allowed out of the workplace.

Wash thoroughly after handling.

Response If swallowed: Immediately call a poison center/doctor.

Rinse mouth.

Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center/doctor.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

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

If exposed or concerned: Get medical advice/attention.

Collect spillage.

Storage Store locked up.

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

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	%
Naled	DIBROM, Dimethyl 1,2-dibromo-2,2-dichloroethyl phosphate	300-76-5	62
Solvent naphtha (petroleum), hea aromatic	vy	64742-94-5	21 - 30
XYLENE		1330-20-7	0.7 - 1.8
Constituents			
Chemical name	Common name and synonyms	CAS number	%
Naphthalene		91-20-3	< 3.1
1,2,4-Trimethylbenzene Impurities		95-63-6	< 0.51
Chemical name	Common name and synonyms	CAS number	%
Dichlorvos (DDVP)	DDVP, Nuvan, Vapona, Dimethyl 2,2-dichlorovinyl phosphate	62-73-7	< 0.3
Composition comments	All concentrations are in percent by weight.		

Material name: Dibrom 8 Emulsive

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately. Administer oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. 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. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. 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.

Most important symptoms/effects, acute and delayed Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Aspiration may cause pulmonary edema and pneumonitis.

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. 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

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 Unsuitable extinguishing media

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

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. This product will emit toxic fumes when heated sufficiently to decompose, including hydrogen chloride, hydrogen bromide and carbon monoxide. Vapors of the unburned product will also be hazardous. Do not breathe gas, fumes, or vapor.

Special protective equipment and precautions for firefighters

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

Material name: Dibrom 8 Emulsive 843 Version #: 3.0 Revision date: Nov-23-2021 Issue date: Sep-11-2017 Fire fighting equipment/instructions Specific methods General fire hazards In case of fire: Evacuate area. Keep upwind. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

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

This product will emit toxic fumes when heated sufficiently to decompose, including hydrogen chloride, hydrogen bromide and carbon monoxide. Vapors of the unburned product will also be hazardous.

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. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not get in eyes. Avoid contact with skin. Avoid contact with clothing. 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

Large Spills: Stop the flow of material, if this is without risk, to prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible to prevent contamination of local water sources. 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: Cover residue with absorbent (clay, sawdust, straw, kitty litter, etc.), to absorb the remaining liquid. Sweep or shovel into an open drum. Clean surface thoroughly with caustic/bleach, followed by water to remove residual contamination. Absorb and sweep into the same open drum. Rinse with water, absorb, and add to the waste drum. Close the drum and dispose of properly, according to hazardous waste disposal procedures for your locality.

Never return spills to original containers for re-use.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Keep out of the reach of children. Keep away from food, drink and animal feedstuffs. Do not taste or swallow. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Handle and open container with care. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Store locked up. Store in original tightly closed container. Keep away from food, drink and animal feedstuffs. 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.

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

Components	Туре	Value	
Naled (CAS 300-76-5)	PEL	3 mg/m3	
XYLENE (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
Constituents	Туре	Value	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
Impurities	Туре	Value	
Dichlorvos (DDVP) (CAS 62-73-7)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Values Components	Туре	Value	Form
Naled (CAS 300-76-5)	TWA	0.1 mg/m3	Inhalable fraction and vapor.

Material name: Dibrom 8 Emulsive

SDS US

Components	Туре	Value	Form
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Constituents	Туре	Value	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
mpurities	Туре	Value	Form
Dichlorvos (DDVP) (CAS 62-73-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide to Chemi	cal Hazards		
Components	Туре	Value	
Naled (CAS 300-76-5)	TWA	3 mg/m3	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	100 mg/m3	
XYLENE (CAS 1330-20-7)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
Constituents	Туре	Value	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	

Biological limit values

62-73-7)

ACGIH Biological Exposure Indices				
Components	Value	Determinant	Specimen	Sampling Time
XYLENE (CAS 1330-	20-7) 1.5 g/g	Methylhippuric	Creatinine in	*
		acids	urine	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Dichlorvos (DDVP) (CAS 62-73-7)

Naled (CAS 300-76-5)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Dichlorvos (DDVP) (CAS 62-73-7) Skin designation applies.

US - Tennessee OELs: Skin designation

Dichlorvos (DDVP) (CAS 62-73-7)

Can be absorbed through the skin.

Naled (CAS 300-76-5)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Dichlorvos (DDVP) (CAS 62-73-7)

Danger of cutaneous absorption

Naled (CAS 300-76-5)

Naphthalene (CAS 91-20-3)

Solvent naphtha (petroleum), heavy aromatic

Danger of cutaneous absorption

Danger of cutaneous absorption

Danger of cutaneous absorption

(CAS 64742-94-5)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Dichlorvos (DDVP) (CAS 62-73-7)

Can be absorbed through the skin.

Naled (CAS 300-76-5)

Can be absorbed through the skin.

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

Dichlorvos (DDVP) (CAS 62-73-7)

Can be absorbed through the skin.

Appropriate engineering

Ensure adequate ventilation, especially in confined areas.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side shields or tight fitting chemical goggles should be used whenever

hazardous chemicals are being handled. A full face respirator should be worn whenever there is a

chance of splashing or misting.

Skin protection

Hand protection Wear chemical resistant gloves (preferably nitrile).

Other The following clothing is required: overalls or pants and long-sleeved shirt, chemical resistant

gloves (preferably nitrile), chemical resistant boots. For added protection a chemical resistant apron and a full face shield are recommended. It there is a risk of splashing, misting or release the following additional PPE is required: two piece hooded chemical resistant suit with either a full face respirator or a SCBA. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such

instructions are available, use detergent and hot water. Keep and wash PPE separately.

Respiratory protection For exposures that may exceed the TLV, a respirator with either an organic vapor-removing

cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) is required. A

full-face respirator or a SCBA may be required if misting or splashing are possible.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes. Avoid contact with skin. Avoid contact with clothing. 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

Physical state Liquid.
Form Liquid.

Color Off-white to straw yellow

Odor Sharp, pungent Odor threshold Not available.

pH 3 (5% in deionized water)

Melting point/freezing point 59 °F (15 °C)
Initial boiling point and boiling 320 °F (160 °C)

range

Flash point 145 °F (63 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 % estimated

(%)

Flammability limit - upper

5 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 10 mm Hg @ 100 F Vapor density Heavier than air

Relative density 1.424 - 1.454 @ 25°C/4°C

Material name: Dibrom 8 Emulsive 843 Version #: 3.0 Revision date: Nov-23-2021 Issue date: Sep-11-2017 Solubility(ies)

Solubility (water) Not available. Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

Other information

11.88 - 12.13 lb/gal **Bulk density** Flammability class Combustible IIIA

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions. Unstable in the presence of iron. Corrosive to aluminum

and magnesium.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials. Excessive heat.

Strong oxidizing agents. Strong acids. Strong bases. May be corrosive to metals. Incompatible materials

Hazardous decomposition

products

Heating product to decomposition will cause emission of acrid smoke and fumes of hydrogen

chloride, hydrogen bromide, phosphorous oxides, and carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes severe skin burns and eye damage.

Eve contact Causes serious eye damage.

Toxic if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Burning pain and severe corrosive skin damage.

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. 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

Toxic if swallowed. Harmful if inhaled. **Acute toxicity**

Product	Species	Test Results
Dibrom 8 Emulsive		
<u>Acute</u>		
Dermal		
LD50	Rabbit	5050 mg/kg (female)
Inhalation		
Mist		
LC50	Rat	1.51 mg/l/4h male (nose only)
Oral		
LD50	Rat	235 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.	

Respiratory or skin sensitization

ACGIH sensitization

DICHLORVOS (DDVP), INHALABLE FRACTION AND Dermal sensitization

VAPOR (CAS 62-73-7)

NALED, INHALABLE FRACTION AND VAPOR

(CAS 300-76-5)

Respiratory sensitization Not available.

Skin sensitization Not a sensitizer.

Germ cell mutagenicity No clear evidence of in vivo mutagenicity in mammalian assay.

Carcinogenicity

Suspected of causing cancer.

Naphthalene has been listed as a possible carcinogen (Group 2B) by the IARC.

Dermal sensitization

No evidence of carcinogenicity in laboratory animals with Naled Technical. However, EPA under its 1999 proposed Guidelines for Carcinogen Risk Assessment has classified DDVP, an impurity in Naled, as having "suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential." IARC listed DDVP (Dichlorvos) as being possibly carcinogenic to humans

(Group 2B).

IARC Monographs. Overall Evaluation of Carcinogenicity

Dichlorvos (DDVP) (CAS 62-73-7)

Naphthalene (CAS 91-20-3)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

XYLENE (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Naphthalene (CAS 91-20-3) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

NALED TERATOGENICITY: Maternal toxicity in rats was observed at 40 mg/kg/day (body weight loss, tremors, painful or difficult breathing, and decreased activity) using Naled Technical (a.i.). No developmental effects were observed at this dose level. The maternal NOEL was 10 mg/kg/day. The developmental NOEL was 40 mg/kg/day.

In a two-generation rat reproduction study with Naled Technical (a.i.), a decrease in male body weight gain was observed at 18 mg/kg/day; however, no effects on reproduction were found in adult animals. Decreases in offspring survival, number of pups born and decreased pup weights were noted at 18 mg/kg/day. The NOEL for both adults and offspring was 6 mg/kg/day.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Very toxic to aquatic life v

Very toxic to aquatic life with long lasting effects. This product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not contaminate water when disposing of equipment washwaters or wastes. Notify authorities if any exposure to the general public or environment

occurs or is likely to occur.

Components Species Test Results

Naled (CAS 300-76-5)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia pulex) 0.0002 - 0.0008 mg/l, 48 hours
Fish LC50 Rainbow trout,donaldson trout 0.083 - 0.208 mg/l, 96 hours

(Oncorhynchus mykiss)

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

Bioaccumulative potential Not available.

Mobility in soil No data available. Other adverse effects None known.

13. Disposal considerations

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

> applicable regulations. 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.

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. 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 should be taken to an approved waste handling site for recycling or disposal Contaminated packaging

according to all applicable regulations. Since emptied containers may retain product residue,

follow label warnings even after container is emptied.

14. Transport information

DOT

UN2922 **UN** number

UN proper shipping name Transport hazard class(es) Corrosive liquids, toxic, n.o.s. (Naled RQ = 10 lbs), MARINE POLLUTANT

8 Subsidiary risk 6.1 Label(s) 8, 6.1 Packing group Ш

Environmental hazards

Marine pollutant Yes

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

Special provisions IB3, T7, TP1, TP28

154 Packaging exceptions 203 Packaging non bulk Packaging bulk 241

IATA

UN number UN2922

UN proper shipping name

Transport hazard class(es)

Corrosive liquid, toxic, n.o.s. (Naled)

Class 8 Subsidiary risk 6.1 Ш Packing group **Environmental hazards** No **ERG Code** 8P

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number

UN proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (Naled), MARINE POLLUTANT Transport hazard class(es)

Class 8 Subsidiary risk 6.1 Packing group Ш

Environmental hazards

Yes Marine pollutant F-A, S-B **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





Marine pollutant



General information

DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

Material name: Dibrom 8 Emulsive

SDS US

15. Regulatory information

US federal regulations

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.

DANGER: CORROSIVE! Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not breathe mist/vapors/spray.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not contaminate water when disposing of equipment washwaters or wastes. Before making the first application in a season, consult with the primary State agency responsible for regulating the pesticide to determine if permits are required or regulatory mandates exist. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Do not apply over bodies of water (e.g., lakes, swamps, rivers, permanent streams, natural ponds, commercial fish ponds, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. See the label for more complete information.

PHYSICAL AND CHEMICAL HAZARDS Combustible. Do not use or store near heat or open flame.

For additional information see the label.

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)

Dichlorvos (DDVP) (CAS 62-73-7)	Listed.
Naled (CAS 300-76-5)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
XYLENE (CAS 1330-20-7)	Listed.

SARA 304 Emergency release notification

Phosphoric acid, 2-dichloroethenyl dimethyl ester **10 LBS** (CAS 62-73-7)

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)	
Dichlorvos (DDVP)	62-73-7	10	1000			

SARA 311/312 Hazardous Yes

chemical

Material name: Dibrom 8 Emulsive SDS US 11 / 13

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity Aspiration hazard

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Naled	300-76-5	62	
XYLENE	1330-20-7	0.7 - 1.8	
Dichlorvos (DDVP)	62-73-7	< 0.3	
Naphthalene	91-20-3	< 3.1	

Other federal regulations

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

Dichlorvos (DDVP) (CAS 62-73-7) Naphthalene (CAS 91-20-3) XYLENE (CAS 1330-20-7)

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.

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including Dichlorvos (DDVP), which is known to the State of California to cause cancer, and ETHYLENE GLYCOL, which is known to the State of

California to cause birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

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

Sep-11-2017 Issue date Revision date Nov-23-2021

ACGIH®: American Conference of Governmental Industrial Hygienists References

> CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

International Agency for Research on Cancer IARC:

NTP: **National Toxicology Program**

Occupational Safety and Health Agency OSHA:

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

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

Version # 3.0 **HMIS®** ratings Health: 3

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 2 Instability: 0

Material name: Dibrom 8 Emulsive

No

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Revision information

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