# SAFETY DATA SHEET

### 1. Identification

**Product identifier Dibrom Concentrate** 

Other means of identification

SDS number 260

**Product registration** 

number

5481-480

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: 5481-480

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name **AMVAC Chemical Corporation** 

**Address** 4685 MacArthur Court

**Suite 1200** 

Newport Beach, CA 92660

**AMVAC Chemical Corp** 949-260-1200 **Telephone** 

> **AMVAC Chemical Corp** 949-260-6270(FAX)

Website www.Amvac-Chemical.com E-mail CustServ@Amvac-Chemical.com

**Emergency phone number** Medical 888-681-4261

> **CHEMTREC®** 800-424-9300

(USA+Canada)

888-462-6822 **Product Use** 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 Sensitization, skin Category 1 Aspiration hazard Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 1

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

#### **Hazard statement** Causes severe skin burns and eye damage.

Causes serious eve damage.

Toxic if swallowed. Harmful if inhaled.

May cause an allergic skin reaction.

Combustible liquid. Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

#### **Precautionary statement**

Do not breathe mist or vapor. Prevention

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.

Wear eye/face protection.

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

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

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash before reuse. Immediately call a POISON CENTER or doctor/physician.

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

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).

Collect spillage.

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

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	%
Naled	DIBROM, Dimethyl 1,2-dibromo-2,2-dichloroethyl phosphate	300-76-5	87.4
Solvent naphtha (petroleum), heavy arom.		64742-94-5	< 15

### **Impurities**

Chemical name	Common name and synonyms	CAS number	%	
Dichlorvos (DDVP)	DDVP, Nuvan, Vapona, Dimethyl	62-73-7	< 0.4	
	2,2-dichlorovinyl phosphate			

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

#### **Composition comments** All concentrations are in percent by weight.

### 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. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell. 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

Eye contact

Ingestion

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Suitable extinguishing media Unsuitable extinguishing

5. Fire-fighting measures

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions Specific methods

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately. Wash contaminated clothing before reuse.

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.

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.

Burning pain and severe corrosive skin damage. 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.

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.

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.

Use fire-extinguishing media appropriate for surrounding materials.

None known.

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.

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

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.

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#### General fire hazards

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. Do not get this material in contact with eyes. 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

Store above 80°F (26.7°C) to prevent solids formation. 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	
Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	PEL	400 mg/m3	
		100 ppm	
Impurities	Туре	Value	
Dichlorvos (DDVP) (CAS 62-73-7)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Value Components	es Type	Value	Form
Naled (CAS 300-76-5)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.

US. ACGIH Threshold Limit Value	es							
Impurities	Туре	Value	Form					
Dichlorvos (DDVP) (CAS 62-73-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.					
US. NIOSH: Pocket Guide to Chemical Hazards								
Components	Туре	Value						
Naled (CAS 300-76-5)	TWA	3 mg/m3						
Impurities	Туре	Value						
Dichlorvos (DDVP) (CAS 62-73-7)	TWA	1 mg/m3						

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

**Exposure guidelines** 

**US ACGIH Threshold Limit Values: Skin designation** 

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

Naled (CAS 300-76-5)

Solvent naphtha (petroleum), heavy arom. (CAS

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

64742-94-5)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

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

Naled (CAS 300-76-5)

Can be absorbed through the skin.

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

controls

Ensure adequate ventilation, especially in confined areas.

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 Not determined

Melting point/freezing point 59 °F (15 °C) Maintain temperature above 70 F to prevent formation of solids

Initial boiling point and boiling 320 °F (160 °C)

range

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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 1.00E+01 mm Hg @ 100 F

Vapor densityHeavier than airRelative densityNot available.

Solubility(ies)

Solubility (water) 0.2 %

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Bulk density** 14.97 - 15.28 lb/gal

Flammability class Combustible IIIA estimated

Specific gravity 1.794 - 1.831 @ 20 C/4 C

## 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. 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.

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

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. May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

**Ingestion** Toxic if swallowed. May cause digestive tract burns. May be harmful if swallowed and enters

airways.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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.

May cause an allergic skin reaction.

### Information on toxicological effects

#### **Acute toxicity**

Toxic if swallowed. Harmful if inhaled. Causes serious eye damage. Causes severe skin burns and eye damage. May be fatal if swallowed and enters airways. May cause an allergic skin

reaction.

Product Species Test Results

Dibrom Concentrate

<u>Acute</u> Dermal

Liquid

LD50 Rabbit 4037 mg/kg Naled Technical

Inhalation

Mist

LC50 Rat > 2.07 mg/l/4h Dibrom 8, female

1.51 mg/l/4h Dibrom 8, male

Oral

Liquid

LD50 Rat 50 - 500 mg/kg Naled Technical

No toxicological information is available for this formulation. The toxicological information listed is for the active ingredient (Naled

Technical) or for a similar formulation (Dibrom 8).

Skin corrosion/irritation Serious eye damage/eye

Causes serious eve damage.

Causes severe skin burns and eye damage.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

DICHLORVOS (DDVP), INHALABLE FRACTION AND Dermal sensitization

VAPOR (CAS 62-73-7)

NALED, INHALABLE FRACTION AND VAPOR (CAS Dermal sensitization

300-76-5)

Respiratory sensitization Not available.

**Skin sensitization** May cause an allergic skin reaction.

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

Carcinogenicity

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) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This 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** Not available.

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

## 12. Ecological information

**Ecotoxicity** 

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			
Crustacea	EC50	Water flea (Daphnia pulex)	0.0002 - 0.0008 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.083 - 0.208 mg/l, 96 hours
Impurities		Species	Test Results
Dichlorvos (DDVP) (C	AS 62-73-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0 - 0.0001 mg/l, 48 hours
Fish	LC50	Cutthroat trout (Oncorhynchus clarki)	0.141 - 0.321 mg/l, 96 hours

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).

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.

### 14. Transport information

DOT

UN number UN2922

UN proper shipping name Transport hazard class(es) Corrosive liquids, toxic, n.o.s. (Naled RQ = 10.0), MARINE POLLUTANT

Class 8

Subsidiary risk 6.1(PGIII)

Label(s) 8, 6.1

Packing group

**Environmental hazards** 

Marine pollutant Yes

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

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

**IATA** 

UN number UN2922

**UN proper shipping name** Corrosive liquids, toxic, n.o.s. (Naled)

### Transport hazard class(es)

Class 8

Subsidiary risk 6.1 (PGIII)
Label(s) 8, 6.1

Packing group III

Environmental hazards No.

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Read safety instructions, SDS and emergency procedures before handling.

Not established.

#### **IMDG**

UN number UN2922

**UN proper shipping name** Corrosive liquids, toxic, n.o.s. (Naled), MARINE POLLUTANT

Transport hazard class(es)

Class 8

Subsidiary risk 6.1(PGIII)
Label(s) 8, 6.1
Packing group III

**Environmental hazards** 

Marine pollutant Yes

EmS Not available.

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

#### DOT



### IATA; IMDG



#### Marine pollutant



### 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.

### 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.

SARA 304 Emergency release notification

Dichlorvos (DDVP) (CAS 62-73-7) **10 LBS** OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### 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

Material name: Dibrom Concentrate 10 / 12

chemical

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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 Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Naled	300-76-5	87.4	
Dichlorvos (DDVP)	62-73-7	< 0.4	

#### Other federal regulations

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

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

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

#### California Proposition 65



WARNING: WARNING: This product contains a chemical known to the State of California to cause cancer.

This product can expose you to Dichlorvos (DDVP), which is known to the State of California to

cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

Dichlorvos (DDVP) (CAS 62-73-7) Listed: January 1, 1989

### **International Inventories**

Country(s) or region

, ,	•	 •
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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 Sep-28-2017
Revision date Sep-10-2018

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

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

Version # 2.1

HMIS® ratings Health: 3

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 2 Instability: 0

Material name: Dibrom Concentrate

On inventory (yes/no)\*

#### **Disclaimer**

This information is provided for the limited guidance to the user. While AMVAC believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

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HMIS is a trademark of the American Coatings Association.

NFPA is a trademark of the National Fire Protection Association, Inc.

**Revision information** 

Hazard(s) identification: Hazard statement

Composition / Information on Ingredients: Disclosure Overrides

Toxicological Information: Toxicological Data

Toxicological information: Phrases

GHS: Classification