# SAFETY DATA SHEET

# 1. Identification

**Product identifier NUVAN DIRECTED SPRAY AEROSOL** 

Other means of identification

SDS number 386

**Product registration** 

number

5481-13

Recommended use Organophosphate insecticide. Recommended restrictions

This is a Restricted Use Pesticide and is for use by licensed applicators only. Keep out of the Reach of Children!

EPA: 5481-13 **EPA Registration number** 

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**AMVAC Chemical Corporation** Company name

4685 MacArthur Court **Address** 

**Suite 1200** 

Newport Beach, CA 92660

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

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

Website www.Amvac-Chemical.com

CustServ@Amvac-Chemical.com E-mail

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

**CHEMTREC®** 800-424-9300

(USA+Canada)

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

USA)

2. Hazard(s) identification

Flammable aerosols **Physical hazards** Category 1 Health hazards Acute toxicity, oral Category 4

> Serious eye damage/eye irritation Category 2B Carcinogenicity Category 2

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

hazard

**OSHA** defined hazards Not classified.

Label elements



Warning Signal word

Extremely flammable aerosol. **Hazard statement** 

Harmful if swallowed. Causes eve irritation.

Suspected of causing cancer. Very toxic to aquatic life.

Material name: NUVAN DIRECTED SPRAY AEROSOL

### **Precautionary statement**

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Avoid breathing mist.

Wash thoroughly after handling.

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

Avoid release to the environment.

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

**Response** If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

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.

If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

Collect spillage.

Storage Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**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

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	%
Dichlorvos (DDVP)	DDVP, Nuvan, Vapona, Dimethyl 2,2-dichlorovinyl phosphate	62-73-7	0.5
Additional components			
Chemical name	Common name and synonyms	CAS number	%
Inert ingredients		N/A	99.5

### 4. First-aid measures

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

artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

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 if irritation develops and persists.

**Ingestion** Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. 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. Dizziness, loss of concentration, and frostbite. CNS depression and cardiac arrhythmia at higher exposure levels to the propellant.

Asphyxiation can occur in confined spaces if the vapors displace air.

Indication of immediate medical attention and special treatment needed

Keep victim warm. Keep victim under observation. Symptoms may be delayed. This is a cholinesterase inhibiting organophosphorous pesticide. The following antidotes are generally accepted: atropine and oximes. Contact the nearest POISON Control Center for medical advice.

**General information** 

IF exposed or concerned: Get medical advice/attention. 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.

Material name: NUVAN DIRECTED SPRAY AEROSOL

1430 Version #: 2.0 Revision date: Oct-03-2018 Issue date: May-19-2015

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

Not available.

Specific hazards arising from

the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol.

# 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing 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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Prevent product from entering drains. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area. Evacuate the area until vapor has been dispersed.

**Environmental precautions** 

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

# 7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not taste or swallow. Avoid breathing mist. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). Level 3 Aerosol.

Value

# 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

Dichlorvos (DDVP) (CAS **PEL** 1 mg/m3 62-73-7)

**US. ACGIH Threshold Limit Values Form** Value Components Type Dichlorvos (DDVP) (CAS TWA 0.1 mg/m3 Inhalable fraction and 62-73-7)vapor. **US. NIOSH: Pocket Guide to Chemical Hazards** Components Value Type Dichlorvos (DDVP) (CAS **TWA** 1 mg/m3

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

**Exposure guidelines** 

62-73-7)

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

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

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

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

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

Not available.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece. Applicable for industrial

settings only.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Applicable for industrial settings only. Nitrile gloves

are recommended (minimum thickness 0.40 mm). Wash when contaminated. Dispose of gloves when contaminated inside, when perforated or when contamination outside cannot be removed.

Always wash hands before eating, drinking, smoking or using the toilet.

Other Use of an impervious apron is recommended. Applicable for industrial settings only. 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 Chemical respirator with organic vapor cartridge and full facepiece. Applicable for industrial

settings only.

Thermal hazards Not available.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### 9. Physical and chemical properties

Appearance Clear aerosol.

Physical stateLiquid.FormAerosol.

**Color** Clear colorless

**Odor** Slight ethereal and sweet odor.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

range

-16 °F (-27 °C) estimated

Flash point > 175 °F (> 79 °C) Cleveland Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

1.8 % estimated

Flammability limit - upper

(%)

9.5 % estimated

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 4.46E+03 mm Hg @ 70 F

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

**Bulk density** < 1 g/cm<sup>3</sup> **Explosive properties** Not explosive.

Flammability class Combustible IIIA estimated

Oxidizing properties Not oxidizing.

VOC 11.2 % estimated

10. Stability and reactivity

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

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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

temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known. Emits hazardous fumes and smoke of unknown

composition when heated to decomposition or burned.

### 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Not available.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes eye irritation. **Ingestion** Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. 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. Causes eye

irritation.

Information on toxicological effects

Acute toxicity Causes eye irritation. Harmful if swallowed.

Product Species Test Results

**NUVAN DIRECTED SPRAY AEROSOL** 

Acute Dermal

LD50 Rabbit > 5050 mg/kg

Material name: NUVAN DIRECTED SPRAY AEROSOL

Product Species Test Results

Inhalation

Mist

LC50 Rat > 2.72 mg/l, 4 hours

Oral

LD50 Rat 550 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

**ACGIH** sensitization

DICHLORVOS (DDVP), INHALABLE FRACTION AND Dermal sensitization

VAPOR (CAS 62-73-7)

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** Not available.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

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.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

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

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life.

Components Species Test Results

Dichlorvos (DDVP) (CAS 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 any ingredients in the mixture.

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. 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 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 local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

# 14. Transport information

DOT

**UN number** Not available.

**UN** proper shipping name

Consumer Commodity, ORM-D

Transport hazard class(es)

Class ORM-D

Subsidiary risk

Packing group Not available.

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

Packaging non bulk None Packaging bulk None

IATA

UN1950 **UN** number

**UN** proper shipping name

Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Not available. Class

Subsidiary risk

Not available. Packing group

**Environmental hazards** 

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

Other information

Allowed with restrictions. Passenger and cargo

aircraft

Cargo aircraft only Allowed with restrictions.

Read safety instructions, SDS and emergency procedures before handling.

Not established.

**IMDG** 

**UN** number UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class Not available.

Subsidiary risk

Packing group Not available.

**Environmental hazards** 

Marine pollutant No.

Not available. **EmS** 

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

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

the IBC Code

Material name: NUVAN DIRECTED SPRAY AEROSOL

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

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

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear long-sleeved shirt, long pants, socks and shoes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN! Do not apply to surfaces contacted frequently by children or allow them in areas where surfaces are not yet dry. Avoid contamination of food/feed and foodstuffs. Do not treat areas where food or food/feed crops are growing. Do not use on pets or animals. Do not smoke while using. Do not spray directly on the skin or on animals. Do not apply in patient rooms or rooms occupied by the elderly or infirm. Do not allow children or pets to contact treated surfaces until dry.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds, and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Not for use around electrical equipment.

# 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.

# 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	qu	uantity	planning quantity	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
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Dichlorvos (DDVP) 62-73-7 10 1000

SARA 311/312 Hazardous No (Exempt)

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Dichlorvos (DDVP)	62-73-7	0.5

# 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.

Material name: NUVAN DIRECTED SPRAY AEROSOL

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

### California Proposition 65



WARNING: 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

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

#### **International Inventories**

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

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

\*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

May-19-2015 Issue date Oct-03-2018 Revision date

ACGIH®: American Conference of Governmental Industrial Hygienists References

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

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

International Agency for Research on Cancer IARC:

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

Superfund Amendments and Reauthorization Act SARA:

TSCA: Toxic Substances Control Act DOT: Department of Transportation

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

Version # 2.0

**HMIS®** ratings Health: 2\*

Flammability: 4 Physical hazard: 0

NFPA ratings

Flammability: 4 Instability: 0

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.

AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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

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

Material name: NUVAN DIRECTED SPRAY AEROSOL

SDS US