

SAFETY DATA SHEET

1. Identification

Product identifier	NUVAN DIRECTED SPRAY AEROSOL	
Other means of identification	000	
SDS number	386	
Recommended use	Organophosphate insecticide.	
Recommended restrictions	This is a Restricted Use Pestic Keep out of the Reach of Child	ide and is for use by licensed applicators only. ren!
Product registration number	5481-13	
Manufacturer/Importer/Supplier	Distributor information	
Manufacturer		
Company name	AMVAC Chemical Corporation	
Address	4100 E Washington Blvd	
	Los Angeles, CA 90023 USA	
Telephone	AMVAC Chemical Corp	323-264-3910
	AMVAC Chemical Corp 323-268-1028 (FAX)	
Website	www.Amvac-Chemical.com	
E-mail	CustServ@Amvac-Chemical.com	
Emergency phone number	Medical	888-681-4261
	CHEMTREC® (USA+Canada)	800-424-9300
	Product Use	888-462-6822
	CHEMTREC® (Outside USA)	+1-703-527-3887
2 Honord(a) identification		
2. Hazard(s) identification		

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Serious eye damage/eye irritation	Category 2
	Germ cell mutagenicity	Category ⁻
	Carcinogenicity	Category ⁻
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 7
OSHA defined hazards	Not classified.	

Label elements



Signal word Warning Hazard statement Harmful if swallowed. Causes eye irritation. Harmful if inhaled. May cause genetic defects. May cause cancer. Very toxic to aquatic life. **Precautionary statement** Do not handle until all safety precautions have been read and understood. Avoid breathing mist. Prevention 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. 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. Rinse mouth. If eye irritation persists: Get medical advice/attention. Collect spillage.

4 2B 1B 1A 1

Storage Disposal Hazard(s) not otherwise classified (HNOC) Supplemental information

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. None known.

United States Environmental Protection Agency Labeling Requirements:

HAZARDS 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, shoes and socks. Wash thoroughly after handling and before eating, drinking, chewing gum, or using tobacco. Remove and launder 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 inpatient 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 washwaters 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.

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
DDVP (DICHLORVOS)		62-73-7	0.5
Additional components			
Chemical name		CAS number	%
Inert ingredients		N/A	99.5
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a artificial respiration if needed. Call a POISON CI		
Skin contact	Wash off with soap and water. Get medical atter	ntion 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 Get medical advice/attention if you feel unwell.	so that stomach content of	doesn't get into the lung
Most important symptoms/effects, acute and delayed	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	This is a cholinesterase inhibiting organophosphorous pesticide. Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptom may be delayed. 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/at (show the label where possible). Ensure that me involved, and take precautions to protect themse attendance.	edical personnel are aware	e of the material(s)
5. Fire-fighting measures			

5. Fire-fighting measures

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

Material name: NUVAN DIRECTED SPRAY AEROSOL

Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Containers should be cooled with water to prevent vapor pressure build up.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

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. Ensure adequate ventilation. 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	Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Evacuate the area until vapor has been dispersed. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.	
7. Handling and storage		
Precautions for safe handling	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. Do not re-use empty containers. Avoid breathing mist. Avoid contact with eyes. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.	
Conditions for safe storage,	Level 3 Aerosol.	
including any incompatibilities	Store locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in original 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).	

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	
DDVP (DICHLORVOS) (CAS 62-73-7)	PEL	1 mg/m3	
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
DDVP (DICHLORVOS) (CAS 62-73-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
DDVP (DICHLORVOS) (CAS 62-73-7)	TWA	1 mg/m3	
logical limit values	No biological exposure limits noted for the ingredient(s).		

Exposure guidelines		
US ACGIH Threshold Limit	Values: Skin designation	
DDVP (DICHLORVOS)		Can be absorbed through the skin.
US NIOSH Pocket Guide to	Chemical Hazards: Skin des	ignation
DDVP (DICHLORVOS)		Can be absorbed through the skin.
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CF	R 1910.1000)
DDVP (DICHLORVOS)	(CAS 62-73-7)	Can be absorbed through the skin.
Appropriate engineering controls	General ventilation normally	adequate. Ensure adequate ventilation, especially in confined areas.
Individual protection measures	s, such as personal protective	equipment
Eye/face protection	Chemical goggles are recon	nmended.
Skin protection		
Hand protection	Wear appropriate chemical	resistant gloves. Nitrile gloves are recommended.
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	air-supplied respirator. Use an uncontrolled release, exp	eeded use NIOSH mechanical filter / organic vapor cartridge or an a positive-pressure air-supplied respirator if there is any potential for posure levels are not known, or any other circumstances where not provide adequate protection.
Thermal hazards	Not available.	
General hygiene considerations	hygiene measures, such as	Keep away from food and drink. Always observe good personal washing after handling the material and before eating, drinking, and/or ork clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Clear aerosol.
Physical state	Liquid.
Form	Aerosol.
Color	Clear colorless
Odor	Slight ethereal and sweet odor.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 175 °F (> 79 °C) Cleveland Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	4.46E+03 mm Hg @ 70 F
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Matarial name: NUIVAN DIRECTED S	

Material name: NUVAN DIRECTED SPRAY AEROSOL

Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	< 1 g/cm ³
Flammability class	Combustible IIIA 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	Hazardous polymerization does not occur.	
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	No hazardous decomposition products are known. This product may emit hazadous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAR SELF-CONTAINED BREATHING APPARATUS when these conditions are present.	

11. Toxicological information

Information on likely routes of exposure		
Inhalation	Harmful if inhaled.	
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	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. May cause drowsiness and dizziness.	

Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmful if swallowed.		
Product	Species	Test Results	
NUVAN DIRECTED SPRAY AE	ROSOL		
<u>Acute</u>			
Dermal			
Mist			
LD50	Rabbit	> 5050 mg/kg	
Inhalation			
Mist			
LC50	Rat	> 2.72 mg/l	
Oral			
Mist			
LD50	Rat	550 mg/kg	
* Estimates for product may	be based on additional compone	ent data not shown.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Irritating to eyes.		
Respiratory or skin sensitizati	on		
ACGIH Sensitization			
DDVP (DICHLORVOS) (CAS 62-73-7) Dermal sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin re	May cause an allergic skin reaction.	
Germ cell mutagenicity	May cause genetic defects.		
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Ua	rcin	ogen	icity

May cause cancer.

IARC Monographs. Overall I	Evaluation of Carcinogenicity		
DDVP (DICHLORVOS) (CAS 62-73-7) 2B Possibly carcinogenic to humans.		2B Possibly carcinogenic to humans.	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1	001-1050)	
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.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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 applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, Ltd Qty (Dichlorvos)
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Passenger and carg					
aircraft	• Allowed.				
Cargo aircraft only IDG	Allowed.				
UN number	UN1950				
UN proper shipping nam Transport hazard class(e		non-flammable, L	td Qty (Dichlorvos)		
Class	Not availa	ble.			
Subsidiary risk	- Not applic	abla			
Packing group Environmental hazards	Not applie	able.			
Marine pollutant	No.				
EmS	Not availa	ble.			
Special precautions for u ransport in bulk according nnex II of MARPOL 73/78 ar ne IBC Code	to Not estab		DS and emergency pro	ocedures before handlin	g.
5. Regulatory informat	tion				
S federal regulations	Standard, RESTRIC inconsiste	29 CFR 1910.12 TED USE PESTIC	00. This product is regi CIDE. It is a violation c g. Read and follow all		
TSCA Section 12(b) Expo	ort Notification	(40 CFR 707, Su	ıbpt. D)		
Not regulated. CERCLA Hazardous Sub	ostance List (40) CFR 302.4)			
DDVP (DICHLORVOS SARA 304 Emergency re	, ,	,	Listed.		
DDVP (DICHLORVOS OSHA Specifically Regul	, ,	,	10 LBS).1001-1050)		
Not listed.					
	l Reauthorizati	on Act of 1986 (\$	SARA)		
Not listed. Superfund Amendments and Hazard categories	Immediate Delayed H Fire Haza Pressure	e Hazard - Yes Iazard - Yes	SARA)		
uperfund Amendments and	Immediate Delayed H Fire Haza Pressure Reactivity	e Hazard - Yes lazard - Yes rd - No Hazard - No Hazard - No	SARA)		
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uperfund Amendments and Hazard categories SARA 302 Extremely haz Chemical name	Immediate Delayed H Fire Haza Pressure Reactivity zardous substa	e Hazard - Yes Hazard - Yes rd - No Hazard - No Hazard - No ance Reportable	Threshold	planning quantity,	planning quantity,
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A standard	Immediate Delayed H Fire Haza Pressure Reactivity zardous substa CAS number 62-73-7 Is No	e Hazard - Yes Hazard - Yes rd - No Hazard - No Hazard - No Ance Reportable quantity	Threshold planning quantity 1000 lbs CAS number	planning quantity, lower value % by wt.	planning quantity,
A standard	Immediate Delayed H Fire Haza Pressure Reactivity zardous substa CAS number 62-73-7 Is No I) S)	e Hazard - Yes Hazard - Yes rd - No Hazard - No ance Reportable quantity 10	Threshold planning quantity 1000 lbs CAS number 62-73-7	planning quantity, lower value % by wt.	planning quantity,
A standard s	Immediate Delayed H Fire Haza Pressure Reactivity zardous substa CAS number 62-73-7 (s No () S) tion 112 Hazare S) (CAS 62-73-7	e Hazard - Yes Hazard - Yes rd - No Hazard - No ance Reportable quantity 10	Threshold planning quantity 1000 lbs <u>CAS number</u> 62-73-7 nts (HAPs) List	planning quantity, lower value % by wt. 0.5	planning quantity,
Uperfund Amendments and Hazard categories SARA 302 Extremely haz Chemical name DDVP (DICHLORVOS) SARA 311/312 Hazardou chemical SARA 313 (TRI reporting <u>Chemical name</u> DDVP (DICHLORVOS) ther federal regulations Clean Air Act (CAA) Sect	Immediate Delayed H Fire Haza Pressure Reactivity zardous substa CAS number 62-73-7 (s No () S) tion 112 Hazare S) (CAS 62-73-7	e Hazard - Yes Hazard - Yes rd - No Hazard - No ance Reportable quantity 10	Threshold planning quantity 1000 lbs <u>CAS number</u> 62-73-7 nts (HAPs) List	planning quantity, lower value % by wt. 0.5	planning quantity,

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. Massachusetts RTK Substance List DDVP (DICHLORVOS) (CAS 62-73-7)
- US. New Jersey Worker and Community Right-to-Know Act

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

US. Pennsylvania Worker and Community Right-to-Know Law

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

US. Rhode Island RTK

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

US. California Proposition 65

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

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

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

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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

Issue date	05-19-2015
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 #	01
Further information	Not available.
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0

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. 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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