

Version 3.0

Revision Date 07/28/2016 Ref. 130000000046

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Vydate® L Insecticide/Nematicide

Tradename/Synonym : DPX-D1410 24L

Vydate[®] 24L

Vydate[®] L (Green or Blue)

B10049186

OXAMYL: [Methyl N'N'-dimethyl-N-[(methylcarbamoyl)oxy]-1-thiooxamimidate]

Product Use : Insecticide, Nematicide

Restrictions on use :

Do not use product for anything outside of the above specified uses.

Manufacturer/Supplier : DuPont

974 Centre Road

Wilmington, DE 19805, USA

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000) Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)

Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Flammable liquids Category 3
Acute toxicity (Oral) Category 2
Acute toxicity (Inhalation) Category 2
Specific target organ toxicity - Category 1

single exposure



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Label content

Pictogram :







Signal word : Danger

Hazardous warnings : Flammable liquid and vapour.

Fatal if swallowed or if inhaled

Causes damage to organs. (Central nervous system, Eyes)



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Hazardous prevention measures

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin 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/ eye protection/ face protection.

Wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

IF exposed: Call a POISON CENTER or doctor/ physician.

Immediately call a POISON CENTER/doctor.

Rinse mouth.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction.

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

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Information presented in Section 2 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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Component	CAS-No.	Concentration
Oxamyl	23135-22-0	24 %
Methanol	67-56-1	35 - 45 %
Other Ingredients		31 - 41 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : ATROPINE IS AN ANTIDOTE - SEEK MEDICAL ATTENTION AT ONCE IN

ALL CASES OF SUSPECTED POISONINGS.

Have the product container or label with you when calling a poison control

center or doctor, or going for treatment.

For medical emergencies involving this product, call toll free 1-800-441-3637.

See Label for Additional Precautions and Directions for Use.

Information presented in Section 4 conforms to the requirements of the

Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state

Regulatory Agencies.

Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison

control center or doctor for treatment advice.

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with

plenty of water for 15-20 minutes. Call a poison control center or doctor for

treatment advice.



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Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes.

> Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

: If swallowed, call a poison control centre or doctor immediately. If swallowed, Ingestion

> drink 1 or 2 glasses of water and try once or twice to induce vomiting by touching the back of throat with finger. Induce vomiting if person is conscious.

Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute

and delayed

may include:

Weakness Blurred vision Breathing difficulties Nausea Headache Abdominal pain discomfort in the chest constriction of pupils slow pulse sweating muscle

: Poisoning produces effects associated with anticholinesterase activity which

twitching

Protection of first-aiders

Notes to physician

: No applicable data available.

: This product is an acetyl cholinesterase inhibiting carbamate insecticide.

Morphine therapy is contra-indicated.

Administer atropine sulphate as an antidote until complete atropinisation (1.2-2.0 mg i.v. every 10-30 minutes). Artificial respiration and/or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until full

recovery is assured.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Specific hazards : Vapours may form explosive mixtures with air. Heating can release vapours

which can be ignited.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus. Wear full

protective equipment.



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Further information : Evacuate personnel and keep upwind of fire. Shut off source of fuel, if

possible and without risk. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Burning chemicals may produce by-products more toxic than the original

material. Cool tank/container with water spray. Control Runoff.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing

apparatus. Use personal protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or

sweep up. Never return to container for reuse. Scoop into bags or boxes with plastic or aluminium shovel. Neutralize with solid sodium hydroxide at a rate

of 3 lbs. per gallon spilled.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco, or using the toilet. Remove

clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon

as possible, wash thoroughly and change into clean clothing.

Handling (Physical Aspects) : Flammable. Keep away from heat and sources of ignition. Use only in well-

ventilated areas.

Dust explosion class : No applicable data available.

Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

Store in original container. Not for use or storage in or around the home.

Keep out of the reach of children.



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Storage period : No applicable data available.

Storage temperature : > 0 °C (> 32 °F)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use only with adequate ventilation. Refer to the product label for additional

Engineering Controls. Information presented in Section 8 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide

Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental

Protection Agency (EPA), or by state Regulatory Agencies.

Personal protective equipment

Respiratory protection : Applicators and other handlers must wear: Mixer and loaders must wear: A

respirator with an organic vapor-removing cartridge with a prefilter approved for pesticides (NIOSH approval number prefix TC-23C), or a canister approved for pesticides (NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister

with any R, P, or HE prefilter.

Skin and body protection : Mixers, loaders, applicators and other handlers must wear:

Coveralls worn over long-sleeved shirt and long pants

Chemical-resistant gloves

Barrier laminate butyl-rubber Neoprene Polyvinylchloride

Viton ®

Chemical resistant footwear plus socks

Protective eyewear

Chemical resistant headgear for overhead exposure

Chemical-resistant apron when cleaning equipment, mixing or loading PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has

been treated, such as plants, soil, or water, is:

Coveralls

Chemical resistant gloves made of any waterproof material

Shoes plus socks

Protective measures : Discard clothing and other absorbent materials that have been drenched or



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heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Guidelines
Exposure Limit Values

Oxamyl

AEL * (DuPont) 0.05 mg/m3 8 & 12 hr. TWA

Methanol

Permissible (OSHA) 200 ppm 260 mg/m3 8 hr. TWA

exposure limit:

TLV (ACGIH) 200 ppm TWA

TLV (ACGIH) 250 ppm STEL

AEL * (DuPont) 200 ppm 8 & 12 hr. TWA, Skin

Biological Exposure Indices

Methanol

BEI (ACGIH) 15 mg/l Methanol/Urine

Sampling time: End of shift.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid Form : liquid

Color : green, or, blue

Odor : slight, sulphurous

^{*} AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.



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Odor threshold : No applicable data available.

pH : 3.6 at 10 g/l 25 °C (77 °F)

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : 23 °C

closed cup

Evaporation rate : No applicable data available.

Flammability (solid, gas) : not auto-flammable

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Density : 0.97 - 0.98 g/cm3

Specific gravity (Relative

density)

No applicable data available.

Water solubility : soluble

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

No applicable data available.

Auto-ignition temperature : Not available for this mixture.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : 2 - 2.2 mPa.s at 25 °C (77 °F)

Oxidizing Substance : The product is not oxidizing.



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SECTION 10. STABILITY AND REACTIVITY

No applicable data available. Reactivity

Chemical stability Stable at normal temperatures and storage conditions.

reactions

Possibility of hazardous : Hazardous polymerization will not occur.

Conditions to avoid : No applicable data available. : Hydrolyses in presence of: Incompatible materials Strong acids and strong bases

Hazardous decomposition

products

: Decomposition will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont[™] Vydate[®] L Insecticide/Nematicide

Inhalation 4 h LC50 : 0.3 mg/l, Rat

Dermal LD50 : > 5,000 mg/kg , Rabbit

Oral LD50 9 mg/kg, female, Rat

Oral LD50 : 10 mg/kg, male, Rat

No skin irritation, Rabbit Skin irritation

Eye irritation Rabbit

Minimal effects that do not meet the threshold for classification.

Sensitisation : Animal test did not cause sensitization by skin contact., Guinea pig

Further information Information presented in this Section conforms to the requirements of

> the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory

Agencies.

Oxamyl

Oral - feed Repeated dose toxicity

multiple species



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- 15 d

LOAEL: 0.75 mg/kg

Reduced body weight gain, cholinesterase inhibition

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

Not classifiable as a human carcinogen.

Mutagenicity : Animal testing did not show any mutagenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Reproductive toxicity : No toxicity to reproduction

Animal testing showed effects on reproduction at levels equal to or

above those causing parental toxicity.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels

equal to or above those causing maternal toxicity.

Methanol

Carcinogenicity : Not classifiable as a human carcinogen.

Overall weight of evidence indicates that the substance is not

carcinogenic.

Mutagenicity : Weight of evidence does not support classification as a germ cell

mutagen.

Animal testing did not show any mutagenic effects.

Genetic damage in cultured mammalian cells was observed in some

laboratory tests but not in others.

Genetic damage in cultured bacterial cells was observed in some

laboratory tests but not in others.

Reproductive toxicity : No toxicity to reproduction

Evidence suggests the substance is not a reproductive toxin in

animals.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in

animals.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the



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International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
DuPont [™] Vydate [®] L Insecticide/Nematicide

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 27 mg/l

72 h ErC50 : Selenastrum capricornutum (green algae) 34 mg/l

48 h EC50 : Daphnia magna (Water flea) 3 mg/l

Oxamyl

61 d Early Life-Stage : NOEC Oncorhynchus mykiss (rainbow trout) 0.77 mg/l

: NOEC Daphnia magna (Water flea) 0.0268 mg/l 21 d flow-through test

Environmental Fate

Methanol

Bioaccumulation Bioaccumulation is unlikely.

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas

> where surface water is present, or to intertidal areas below the mean high water mark. Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. See product label for additional application instructions

relating to environmental precautions.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods -Product

: Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by

use according to label instructions, contact your State Pesticide or

Environmental Control Agency, or the Hazardous Waste representative at the

nearest EPA Regional Office for guidance.



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Waste disposal methods -

: Container Refilling and Disposal:

Container

IMDG

Refer to the product label for instructions.

In the event of a major spill, fire or other emergency, call 1-800-441-3637 day

or night.

: No applicable data available. Contaminated packaging

SECTION 14. TRANSPORT INFORMATION

DOT **UN** number : 2991

> Proper shipping name : Carbamate pesticides, liquid, toxic, flammable (Methanol,

> > Oxamyl)

: 6.1 (3) Class Packing group : 11 Labelling No. : 6.1 (3)

Reportable Quantity : 100 lbs Oxamyl

UN number IATA C : 2991

> Proper shipping name : Carbamate pesticide, liquid, toxic, flammable (Methanol,

> > Oxamyl)

: 6.1 (3) Class Packing group : 11 Labelling No. : 6.1 (3) UN number : 2991

Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC,

FLAMMABLE (Methanol, Oxamyl)

Class : 6.1 (3) Packing group : 11 Labelling No. : 6.1 (3)

Marine pollutant : yes (Oxamyl)

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US

Environmental Protection Agency (USEPA) and various state regulatory agencies, and is therefore also subject to certain requirements under US and

state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification



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criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is information determined by USEPA, and various states.

DANGER! POISON!

Fatal if swallowed. May be fatal if inhaled. Do not breathe vapours or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. This product is toxic to: Aquatic organisms This product is extremely

toxic to: Birds Mammals

Restricted to professional users.

SARA 313 Regulated

Chemical(s)

: Methanol

PA Right to Know Regulated Chemical(s)

: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):

Methanol, Oxamyl

NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present

at a concentration of 1% or more (0.1% for substances identified as

carcinogens, mutagens or teratogens): Methanol

Title III hazard classification

: Acute Health Hazard: Yes Chronic Health Hazard: No

Fire: Yes

Reactivity/Physical hazard: No

Pressure: No

CERCLA Reportable

Quantity

: 402 lbs

Based on the percentage composition of this chemical in the product.:

Oxamyl

SARA Reportable Quantity : 402 lbs

Based on the percentage composition of this chemical in the product.:

Oxamyl

EPA Reg. No. : 352-372

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.



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California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or

any other harm: none known

SECTION 16. OTHER INFORMATION

NFPA

Health 2

3 Flammability

Reactivity/Physical hazard : 0

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Contact person : DuPont Crop Protection, Wilmington, DE, 19805, Phone: 1-888-638-7668

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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