



**DuPont™ Vydate® L Insecticide/Nematicide**

Version 2.2

Revision Date 04/18/2017

Ref. 130000000046

This SDS adheres to the standards and regulatory requirements of Canada 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 : Vydate 24L  
OXAMYL: [Methyl N'N'-dimethyl-N-[(methylcarbamoyl)oxy]-1-thiooxamimidate]  
Vydate 24SL  
Vydate 240SL  
Vydate 240

SDS Number : 130000000046

Product Use : Insecticide, Nematicide  
Manufacturer : E.I. du Pont Canada Company  
P.O. Box 2200, Streetsville  
Mississauga, ON  
L5M 2H3  
Canada

Product Information : 1-800-387-2122  
Medical Emergency : 1-800-441-3637 (24 hours)

**SECTION 2. HAZARDS IDENTIFICATION**

Emergency Overview  
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

Warning symptoms:  
Poisoning produces effects associated with anticholinesterase activity which may include:  
Weakness Blurred vision, Breathing difficulties, Nausea, Headache, Abdominal pain, discomfort in the chest, constriction of pupils, slow pulse, sweating, muscle twitching

Potential Health Effects



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This section includes potential acute adverse effects which could occur if this material is not used according to the label.

**Skin**

Oxamyl : Abnormal cholinesterase levels Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Nausea, Abdominal pain, Abnormal tearing, Abnormal salivation, constriction of pupils, blurred vision, muscle twitching, Convulsions, Respiratory effects.

**Eyes**

Oxamyl : Abnormal cholinesterase levels Abnormal tearing, constriction of pupils, Blurred vision.  
acute lethal effects

**Inhalation**

Oxamyl : Abnormal cholinesterase levels Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Nausea, Abdominal pain, Abnormal tearing, Abnormal salivation, constriction of pupils, Blurred vision, muscle twitching, Convulsions, Respiratory effects.

**Ingestion**

Oxamyl : Abnormal cholinesterase levels Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Nausea, Abdominal pain, Abnormal tearing, Abnormal salivation, constriction of pupils, Blurred vision, muscle twitching, Convulsions, Respiratory effects.

**Target Organ**

Oxamyl : Central nervous system

**Carcinogenicity**

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 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component | CAS-No. | Concentration |
|-----------|---------|---------------|
|-----------|---------|---------------|


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|                   |            |      |
|-------------------|------------|------|
| Oxamyl            | 23135-22-0 | 24 % |
| Other Ingredients |            | 76 % |

**SECTION 4. FIRST AID MEASURES**

- 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.
- 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.
- Inhalation** : Move to fresh air. Oxygen or artificial respiration if needed. Call a poison control center or doctor for treatment advice.
- Ingestion** : If swallowed, call a poison control centre or doctor immediately. If swallowed, 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.
- 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.
- Notes to physician** : 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.

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**SECTION 5. FIREFIGHTING MEASURES**

## Flammable Properties

Flash point : 23 °C (73 °F) closed cup

## Fire and Explosion Hazard

: Vapours may form explosive mixtures with air. Heating can release vapours which can be ignited.

## Suitable extinguishing media

: Water spray, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>)

## Unsuitable extinguishing media

: High volume water jet, (contamination risk)

## Firefighting Instructions

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

## 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

: Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.



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### 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.
- 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.
- 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.
- Personal protective equipment
- Respiratory protection : Mixers, loaders, applicators and other handlers 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



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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 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

|          |          |            |                      |  |
|----------|----------|------------|----------------------|--|
| Methanol |          |            |                      |  |
| TLV      | (ACGIH)  | 200 ppm    | TWA                  |  |
| TLV      | (ACGIH)  | 250 ppm    | STEL                 |  |
| AEL *    | (DuPont) | 200 ppm    | 8 & 12 hr. TWA, Skin |  |
| Oxamyl   |          |            |                      |  |
| AEL *    | (DuPont) | 0.05 mg/m3 | 8 & 12 hr. TWA       |  |

\* 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form : liquid
- Color : green, or, blue
- Odor : slight, sulphurous
- pH : 3.6 at 10 g/l 25 °C (77 °F)



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Oxidizing Substance : The product is not oxidizing.  
 Density : 0.97 - 0.98 g/cm<sup>3</sup>  
 Water solubility : soluble  
 Viscosity : 2 - 2.2 mPa.s at 25 °C (77 °F)

**SECTION 10. STABILITY AND REACTIVITY**

Stability : Stable at normal temperatures and storage conditions.  
 Incompatibility : Hydrolyses in presence of:  
 Strong acids and strong bases  
 Hazardous decomposition products : Decomposition will not occur.  
 Hazardous reactions : Hazardous polymerization will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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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  
 Skin irritation : No skin irritation, Rabbit  
 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

Oxamyl

Eye contact : mortality  
 Repeated dose toxicity : Oral - feed  
 multiple species  
 15 d


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Reduced body weight gain, cholinesterase inhibition

- Carcinogenicity : Did not show carcinogenic effects in animal experiments. Not classifiable as a human carcinogen.
- 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.

**SECTION 12. ECOLOGICAL INFORMATION**
**Aquatic Toxicity**

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

- 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 : Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or





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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.

Container disposal: : Container Refilling and Disposal:  
 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.

**SECTION 14. TRANSPORT INFORMATION**

|          |                      |  |
|----------|----------------------|--|
| TDG_ROAD | UN number            | : 2991   |
|          | Proper shipping name | : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Methanol, Oxamyl) |
|          | Class                | : 6.1 (3)  |
|          | Packing group        | : II   |
|          | Labelling No.        | : 6.1 (3)  |
| TDG_RAIL | UN number            | : 2991   |
|          | Proper shipping name | : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Methanol, Oxamyl) |
|          | Class                | : 6.1 (3)  |
|          | Packing group        | : II   |
|          | Labelling No.        | : 6.1 (3)  |
| IATA_C   | UN number            | : 2991   |
|          | Proper shipping name | : Carbamate pesticide, liquid, toxic, flammable (Methanol, Oxamyl) |
|          | Class                | : 6.1 (3)  |
|          | Packing group        | : II   |
|          | Labelling No.        | : 6.1 (3)  |
| IMDG     | UN number            | : 2991   |
|          | Proper shipping name | : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Methanol, Oxamyl) |
|          | Class                | : 6.1 (3)  |
|          | Packing group        | : II   |
|          | Labelling No.        | : 6.1 (3)  |
|          | Marine pollutant     | : yes (Oxamyl)   |

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**SECTION 15. REGULATORY INFORMATION**

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.

PCP Registration # : 17995

Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 04/18/2017

™ Trademark of E.I. du Pont de Nemours and Company.

® Registered trademark of E.I. du Pont de Nemours and Company

Contact person : E.I. DuPont Canada Company, Mississauga, Ontario, L5M 2H3

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