

# SAFETY DATA SHEET



## DuPont™ Vydate® L insecticide/nematicide

Version 2.2

Revision Date 14.09.2016

Document no. 13000094791

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

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product name** : DuPont™ Vydate® L insecticide/nematicide

**Other names** : Vydate 24L  
DPX-D1410 24L

**Recommended use of the chemical and restriction on use**  
No information available.

**Manufacturer, importer, supplier, representative office**

Company : Du Pont (Australia) Pty Ltd  
Street address : 7 Eden Park Drive  
Macquarie Park NSW 2113  
Australia  
Telephone : (02) 9923 6111  
Telefax : (02) 9923 6011

**Emergency telephone number** : (02) 9923 6275 (Transport Emergency)  
(24 hr Emergency Medical Information: 1800 674 415)

### 2. HAZARDS IDENTIFICATION

**Product hazard classification**

Flammable liquids : Category 3  
Acute toxicity (Oral) : Category 2  
Acute toxicity (Inhalation) : Category 2  
Serious eye damage/eye irritation : Category 2A  
Acute aquatic toxicity : Category 2  
Chronic aquatic toxicity : Category 2  
Endpoints which are not classified, cannot be classified or are not applicable are not shown.

**Label content**

Pictogram :



Signal word : Danger

Hazardous warnings : Flammable liquid and vapour.  
Fatal if swallowed or if inhaled  
Causes serious eye irritation.  
Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET



## DuPont™ Vydate® L insecticide/nematicide

Version 2.2

Revision Date 14.09.2016

Document no. 130000094791

**Precautionary statements** :

- 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. Rinse mouth.
- 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. Immediately call a POISON CENTER or doctor/ physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/ attention.
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Collect spillage.
- 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture

#### Components

Chemical name	CAS-No.	Concentration
Oxamyl	23135-22-0	24 %
Cyclohexanone	108-94-1	10 - 15%
Other Ingredients		61 - 66%

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary.

**Skin contact** : Take off all contaminated clothing immediately. Call a poison information centre or doctor for treatment advice. In case of skin contact, wash off immediately with plenty of water.

**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 information centre or doctor for treatment advice.

# SAFETY DATA SHEET



## DuPont™ Vydate® L insecticide/nematicide

Version 2.2

Revision Date 14.09.2016

Document no. 13000094791

<b>Ingestion</b>	:	If swallowed Ingest activated charcoal.
<b>Most important symptoms/effects, acute and delayed</b>	:	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
<b>Protection of first-aiders</b>	:	No information available.
<b>Notes to physician</b>	:	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. This product is an acetyl cholinesterase inhibiting carbamate insecticide. Morphine therapy is contra-indicated.

### 5. FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	:	Water spray, Dry chemical, Foam, Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing media</b>	:	High volume water jet, (contamination risk)
<b>Specific hazards</b>	:	Vapours may form explosive mixtures with air.
<b>Special protective equipment for firefighters</b>	:	In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.
<b>Specific extinguishing methods</b>	:	No information available.
<b>Further information</b>	:	Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
<b>Hazchem Code</b>	:	.3W

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	:	Use personal protective equipment.
<b>Environmental precautions</b>	:	Prevent material from entering sewers, waterways, or low areas.

# SAFETY DATA SHEET



## DuPont™ Vydate® L insecticide/nematicide

Version 2.2

Revision Date 14.09.2016

Document no. 130000094791

**Methods and materials for containment and cleaning up** : Neutralize with solid sodium hydroxide at a rate of 3 lbs. per gallon spilled. Soak up with sawdust, sand, oil dry or other absorbent material. Sweep up and shovel into suitable containers for disposal. Never return to container for reuse. Scoop into bags or boxes with plastic or aluminium shovel.

**Additional advice** : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

### 7. HANDLING AND STORAGE

#### Handling

Technical measures/Precautions : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Precautions for safe handling : Keep away from heat and sources of ignition.

#### Storage

Suitable storage conditions : Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a well-ventilated area away from heat and sunlight. Keep out of the reach of children. Store locked up. DO NOT store for prolonged periods in direct sunlight

Storage period: Storage temperature: > 0 °C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Applicable occupational exposure limits are listed below.

Chemical name	Occupational Exposure Limits	Regulation
Cyclohexanone		
TWA	25 ppm 100 mg/m <sup>3</sup>	AU NOEL (12 2011)
	Can be absorbed through skin.	AU NOEL (12 2011)
TWA	20 ppm	US ACGIH (2011)
STEL	50 ppm	US ACGIH (2011)
	Can be absorbed through skin.	US ACGIH (2011)

**Engineering measures** : Ensure adequate ventilation, especially in confined areas.

**Biological occupational exposure limits** : No information available.

#### Personal protective equipment

Respiratory protection : Half mask with a particle filter conforming to AS/NZS 1715 & AS/NZS 1716.

Hand protection : Material: Polyvinyl chloride - PVC  
Glove length: elbow length

**DuPont™ Vydate® L insecticide/nematicide**

Version 2.2

Revision Date 14.09.2016

Document no. 130000094791

Eye protection	: Goggles
Skin protection	: Opening the container and preparing spray: Wear cotton overalls buttoned to neck and wrist, and a washable hat., elbow-length PVC gloves
<b>Hygiene measures</b>	: Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use. Wash contaminated clothing before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance (Physical state, form, colour, etc.)**

Physical state	: liquid
Form	: liquid
Colour	: dark green

**Odour** : aromatic**Odour Threshold** : No information available.**pH** : 3.0**Melting point/freezing point**

No information available.

**Initial boiling point and boiling range**

No information available.

**Flash point** : 51.7 °C**Evaporation rate** : No information available.**Flammability (solid, gas)** : No information available.**Upper/lower flammability or explosive limits**

Upper explosion limit	: No information available.
Lower explosion limit	: No information available.

**Vapour pressure** : No information available.**Vapour density** : No information available.**Density**Density : 1.059 g/cm<sup>3</sup>**Solubility(ies)**

Water solubility : miscible

**Partition coefficient: n-octanol/water** : No information available.**Auto-ignition temperature**

No information available.


**DuPont™ Vydate® L insecticide/nematicide**

Version 2.2

Revision Date 14.09.2016

Document no. 130000094791

**Decomposition temperature** : No information available.

**Viscosity**  
Viscosity, kinematic : No information available.

**Molecular weight** : No information available.

**10. STABILITY AND REACTIVITY**

**Reactivity** : No information available.

**Chemical stability** : Stable at normal temperatures and storage conditions.

**Possibility of hazardous reactions** : Hazardous polymerization will not occur.

**Conditions to avoid** : No information available.

**Materials to avoid** : Hydrolyses in presence of:  
Strong acids and strong bases

**Hazardous decomposition products** : Decomposition will not occur.

**11. TOXICOLOGICAL INFORMATION**
**Acute toxicity**
**Oral**

DuPont™ Vydate® L insecticide/nematicide : LD50/Rat Male and female: 9.1 mg/kg

**Inhalation**

DuPont™ Vydate® L insecticide/nematicide : LC50/4 h/Rat(dust/mist): 0.11 mg/l  
Information given is based on data obtained from similar product.

**Dermal**

DuPont™ Vydate® L insecticide/nematicide : LD50/Rat: > 5,000 mg/kg

**Skin corrosion/irritation**

DuPont™ Vydate® L insecticide/nematicide : Species: Rabbit  
Result: No skin irritation

**Serious eye damage/eye irritation**

DuPont™ Vydate® L insecticide/nematicide : Species: Rabbit  
Result: Irritating to eyes.

**Respiratory or skin sensitisation**

DuPont™ Vydate® L insecticide/nematicide : Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

Oxamyl : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.


**DuPont™ Vydate® L insecticide/nematicide**

Version 2.2

Revision Date 14.09.2016

Document no. 130000094791

- Cyclohexanone : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Carcinogenicity**
- Oxamyl : Did not show carcinogenic effects in animal experiments.  
Not classifiable as a human carcinogen.
- Cyclohexanone : Not classifiable as a human carcinogen.  
Animal testing did not show any carcinogenic effects.
- Reproductive toxicity**
- Oxamyl : 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.
- Cyclohexanone : Reproductive toxicity: No toxicity to reproduction  
Evidence suggests the substance is not a reproductive toxin in animals.  
No effects on or via lactation  
Teratogenicity: Animal testing showed no developmental toxicity.
- Specific Target Organ Toxicity**
- Specific target organ toxicity - single exposure
- DuPont™ Vydate® L insecticide/nematicide : The substance or mixture is not classified as specific target organ toxicant, single exposure.  
cholinesterase inhibition
- Specific target organ toxicity - repeated exposure
- DuPont™ Vydate® L insecticide/nematicide : Refer to repeated dose toxicity data for more information on target organs if applicable.
- Aspiration hazard**
- DuPont™ Vydate® L insecticide/nematicide : No aspiration toxicity classification
- Other**
- Oxamyl : Repeated dose toxicity:  
Oral - feed/multiple species 15 d  
LOAEL: 0.75 mg/kg  
Reduced body weight gain, cholinesterase inhibition
- Cyclohexanone : Repeated dose toxicity:  
Ingestion/Rat 90 d  
NOAEL: 143 mg/kg  
LOAEL: 407 mg/kg  
Method: OECD Test Guideline 408  
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Adverse body weight effects

**12. ECOLOGICAL INFORMATION**

# SAFETY DATA SHEET



## DuPont™ Vydate® L insecticide/nematicide

Version 2.2

Revision Date 14.09.2016

Document no. 130000094791

### Ecotoxicity effects

Acute and prolonged toxicity to fish

Oxamyl : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 3.16 mg/l  
Cyclohexanone : LC50/96 h/Pimephales promelas (fathead minnow): 527 mg/l

Toxicity to aquatic plants

DuPont™ Vydate® L insecticide/nematicide : ErC50/48 h/Pseudokirchneriella subcapitata (green algae): 6.5 mg/l

Acute toxicity to aquatic invertebrates

Oxamyl : EC50/48 h/Daphnia magna (Water flea): 0.319 mg/l  
Cyclohexanone : EC50/48 h/Daphnia magna (Water flea): 800 mg/l

Chronic toxicity to fish

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

Chronic toxicity to aquatic Invertebrates

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

### Persistence and degradability

Cyclohexanone : Result: Biodegradable

### Bioaccumulation

No information available.

### Mobility in soil

No information available.

### Other adverse effects

DuPont™ Vydate® L insecticide/nematicide : See product label for additional application instructions relating to environmental precautions.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** : Do not contaminate ponds, waterways or ditches with chemical or used container.

**Contaminated packaging** : Do not re-use empty containers.  
Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture, and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

### ADG

UN number : 2991  
UN proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  
(Oxamyl, Cyclohexanone)



# SAFETY DATA SHEET



## DuPont™ Vydate® L insecticide/nematicide

Version 2.2

Revision Date 14.09.2016

Document no. 130000094791

Transport hazard class : 6.1 (3)  
Packing group : II  
Hazchem Code : .3W

### IMDG

UN number : 2991  
UN proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  
(Oxamyl, Cyclohexanone)  
Transport hazard class : 6.1 (3)  
Packing group : II  
Marine pollutant : yes (Oxamyl)

### IATA

UN number : 2991  
UN proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  
(Oxamyl, Cyclohexanone)  
Transport hazard class : 6.1 (3)  
Packing group : II

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01). Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197.

## 15. REGULATORY INFORMATION

SUSMP: Schedule 7  
APVMA Number: 33297

## 16. OTHER INFORMATION

### References

SDS Number: 130000094791

### Revision Date/Version

Date of first preparation : 28.11.2011  
Revision Date : 14.09.2016  
Version : 2.2

Take notice of the directions of use on the label.

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READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Significant change from previous version is denoted with a double bar.

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