

# SAFETY DATA SHEET



## DuPont™ Lannate® L insecticide

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

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

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

**Product name** : DuPont™ Lannate® L insecticide

**Other names** : B12610541  
DPX-X1179-524

**Recommended use of the chemical and restriction on use**

Recommended use : Insecticide

**Manufacturer, importer, supplier**

Company : DuPont (New Zealand) Limited  
Street address : Level 1, 14 Ormiston Road, East Tamaki, Auckland 2016  
New Zealand  
Telephone : 0800 658080  
Telefax : (09)-271-2961

**Emergency telephone number** : NZ Poisons Information Centre Ph: 0800 764766  
24-hour Medical Emergency: 0800 111174 Transport Emergency: 0800 387668

### 2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001  
Classified as a Dangerous Good according to NZS 5433

**HSNO Classification:**

3.1B : Flammable Liquids  
6.1C : Acute toxicity (Oral)  
6.1D : Acute toxicity (Inhalation)  
6.4A : Eye irritation  
6.9A : Specific Target Organ Toxicity  
6.8B : Toxic to Reproduction  
9.1A : Aquatic toxicity (Acute or Chronic)  
9.2D : Ecotoxic to soil environment  
9.3B : Ecotoxic to terrestrial vertebrates  
9.4A : Ecotoxic to terrestrial invertebrates

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

**Label content**

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Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

Pictogram

:



Signal word

: Danger

Hazardous warnings

: Highly flammable liquid and vapour.  
 Toxic if swallowed.  
 Causes serious eye irritation.  
 Harmful if inhaled.  
 Causes damage to organs through prolonged or repeated exposure.  
 Very toxic to aquatic life with long lasting effects.  
 Toxic to the soil environment.  
 Toxic to terrestrial vertebrates.  
 Toxic to terrestrial invertebrates.

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.  
 Do not handle until all safety precautions have been read and understood.  
 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Get medical advice/ attention if you feel unwell.  
 IF exposed or concerned: Get medical advice/attention.  
 Specific treatment (see supplemental first aid instructions on this label).  
 Rinse mouth.  
 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 cool.

# SAFETY DATA SHEET



## DuPont™ Lannate® L insecticide

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

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
Methomyl	16752-77-5	20 %
Methanol	67-56-1	60 - 70%
Other Ingredients		<=20%

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Never give anything by mouth to an unconscious person.

- Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. 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.
- 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.
- 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. Never give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed** : Poisoning produces effects associated with anticholinesterase activity which may include: Weakness, Blurred vision, Nausea, Headache, Abdominal pain, discomfort in the chest, constriction of pupils, slow pulse, sweating, muscle twitching
- Protection of first-aiders** : No information available.
- Notes to physician** : Administer atropine sulphate as an antidote until complete atropinisation (1.2-2.0 mg i.v. every 10-30 minutes). However, for exposure to methomyl in combination with organophosphorous insecticides, 2-PAM (1-2 g slow i.v.) may be used as required to supplement the atropine sulfate treatment as described above. Artificial respiration and/or oxygen may be necessary. This product is an acetyl cholinesterase inhibiting carbamate insecticide. Morphine therapy is contra-indicated.

### 5. FIREFIGHTING MEASURES

# SAFETY DATA SHEET



## DuPont™ Lannate® L insecticide

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

<b>Suitable extinguishing media</b>	: Dry chemical, Water spray, Foam, Carbon dioxide (CO2)
<b>Unsuitable extinguishing media</b>	: High volume water jet, (contamination risk)
<b>Specific hazards</b>	: Fire or intense heat may cause violent rupture of packages.
<b>Special protective equipment for firefighters</b>	: Wear full protective clothing and self-contained breathing apparatus.
<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>	: .3WE

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	: Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wear suitable protective equipment.
<b>Environmental precautions</b>	: Prevent material from entering sewers, waterways, or low areas.
<b>Methods and materials for containment and cleaning up</b>	: Prevent further leakage or spillage. Dike spill. Shovel or sweep up. Scoop into bags or boxes with plastic or aluminium shovel. Never return to container for reuse. If product enters crevices and can not be removed, treat with a sodium hydroxide solution and allow to stand 4 hours. Note: Sodium hydroxide is caustic and causes burns. Do not get in eyes, skin or clothing.
<b>Additional advice</b>	: Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

### 7. HANDLING AND STORAGE

#### Handling

Technical measures/Precautions	: When using do not eat, drink or smoke. Do not breathe vapours or spray mist. Avoid contact with skin and eyes.
Precautions for safe handling	: Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

## SAFETY DATA SHEET

**DuPont™ Lannate® L insecticide**

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

**Storage**

Suitable storage conditions : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up. Keep away from food, fertilizers and seeds. Keep away from heat, sparks and flames.

Advice on common storage: No special restrictions on storage with other products.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

Chemical Name	Occupational Exposure Limits	Regulation
Methomyl		
TWA	2.5 mg/m <sup>3</sup>	NZ OEL (06 2016)
	(Inhalable fraction and vapor.) Can be absorbed through skin.	US ACGIH (02 2014)
TWA	0.2 mg/m <sup>3</sup> (Inhalable fraction and vapor.)	US ACGIH (02 2014)
Methanol		
STEL	250 ppm 328 mg/m <sup>3</sup>	NZ OEL (06 2016)
TWA	200 ppm 262 mg/m <sup>3</sup>	NZ OEL (06 2016)
	Can be absorbed through skin.	NZ OEL (06 2016)
TWA	200 ppm	US ACGIH (2011)
STEL	250 ppm	US ACGIH (2011)
	Can be absorbed through skin.	US ACGIH (2011)

**Engineering measures** : Use only with adequate ventilation.

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

**Personal protective equipment**

Respiratory protection : Suitable respiratory equipment:

Hand protection : Material: Chemical-resistant gloves

Eye protection : Wear chemical safety goggles or equivalent eye protection.

Skin protection : When mixing, loading, applying or entering wear:, Wear suitable protective equipment., Chemical resistant coveralls., Chemical-resistant gloves, Chemical resistant footwear plus socks, Protective eyewear, Chemical resistant headgear for overhead exposure

**Hygiene measures** : When using do not eat, drink or smoke. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Wash hands and face before breaks and after work. Wash all protective clothing after use.

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

Physical state : liquid

Form : liquid

# SAFETY DATA SHEET



## DuPont™ Lannate® L insecticide

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

Colour	:	blue
Odour	:	sulphur
Odour Threshold	:	No information available.
pH	:	Non data available
<b>Melting point/freezing point</b>		No information available.
<b>Initial boiling point and boiling range</b>		No information available.
Flash point	:	12.2 °C closed cup similar formulation
Evaporation rate	:	No information available.
Flammability (solid, gas)	:	No information available.
<b>Upper/lower flammability or explosive limits</b>		
Upper explosion limit	:	No information available.
Lower explosion limit	:	No information available.
Vapour pressure	:	No information available.
Vapour density	:	No information available.
Density		
Density	:	0.9 (20 °C)
<b>Solubility(ies)</b>		
Water solubility	:	miscible
<b>Partition coefficient: n-octanol/water</b>	:	Not applicable
<b>Auto-ignition temperature</b>		
Auto-ignition temperature	:	420 °C
<b>Decomposition temperature</b>	:	No information available.
<b>Viscosity</b>		
Viscosity, kinematic	:	No information available.
<b>Molecular weight</b>	:	No information available.

## 10. STABILITY AND REACTIVITY

Reactivity	:	No information available.
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**DuPont™ Lannate® L insecticide**

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

- Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.  
No decomposition if stored and applied as directed.
- Possibility of hazardous reactions** : Vapours may form explosive mixture with air. Vapour/air-mixtures are explosive at intense warming.
- Conditions to avoid** : Heat, flames and sparks.
- Materials to avoid** : No materials to be especially mentioned.
- Hazardous decomposition products** : Hazardous thermal decomposition products may include:  
Sulphur dioxide, Hydrogen cyanide (hydrocyanic acid), Methyl isocyanate, Sulphur oxides, Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>)

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

- DuPont™ Lannate® L insecticide : LD50/Rat: 132 mg/kg  
Information given is based on data obtained from similar product.

**Inhalation**

- DuPont™ Lannate® L insecticide : LC50/4 h/Rat: 1.28 mg/l  
Information given is based on data obtained from similar product.

**Dermal**

- DuPont™ Lannate® L insecticide : LD50/Rat: > 5,000 mg/kg  
Information given is based on data obtained from similar product.

**Skin corrosion/irritation**

- DuPont™ Lannate® L insecticide : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
Information given is based on data obtained from similar product.

**Serious eye damage/eye irritation**

- DuPont™ Lannate® L insecticide : Species: Rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405  
Information given is based on data obtained from similar product.

**Respiratory or skin sensitisation**

- DuPont™ Lannate® L insecticide : Species: Guinea pig  
Result: Animal test did not cause sensitization by skin contact.  
Method: OECD Test Guideline 406  
Information given is based on data obtained from similar product.

**Germ cell mutagenicity**

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

**DuPont™ Lannate® L insecticide**

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

Methanol : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Overall weight of evidence indicates that the substance is not mutagenic. Did not cause genetic damage in animals. 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.

**Carcinogenicity**

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

Methanol : Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

**Reproductive toxicity**

Methomyl : Reproductive toxicity: Animal testing showed no reproductive toxicity. No toxicity to reproduction  
Teratogenicity: Animal testing showed no developmental toxicity.

Methanol : 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.

**Specific Target Organ Toxicity**

Specific target organ toxicity - single exposure

Methomyl : Likely route of exposure: Ingestion  
The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Methomyl : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

Methomyl : No aspiration toxicity classification

**Other**

DuPont™ Lannate® L insecticide : May be lethal if absorbed through eyes: a rabbit died via ocular exposure. This exposure was within the equivalent range that produced mortalities via oral administration.

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Acute and prolonged toxicity to fish

DuPont™ Lannate® L insecticide : static test/LC50/96 h/Oncorhynchus mykiss (rainbow trout): 18 mg/l  
Method: OECD Test Guideline 203  
The toxicological data has been taken from products of similar composition., Information source: Internal study report

Toxicity to aquatic plants

Methomyl : ErC50/72 h/Desmodesmus subspicatus (green algae): > 100 mg/l



# SAFETY DATA SHEET



## DuPont™ Lannate® L insecticide

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

### Acute toxicity to aquatic invertebrates

DuPont™ Lannate® L insecticide : EC50/48 h/Daphnia (water flea): 0.096 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself), Information source: Internal study report

### Persistence and degradability

DuPont™ Lannate® L insecticide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

### Bioaccumulation

DuPont™ Lannate® L insecticide : Does not bioaccumulate. Estimation based on data obtained on active ingredient.

### Mobility in soil

No information available.

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** : In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.

**Contaminated packaging** : Do not re-use empty containers.  
Triple rinse containers. Add rinsings to spray tank. Burn in an appropriate incinerator, if circumstances permit. Otherwise crush or puncture and bury in an approved landfill. Dispose of this product only by using according to this label.

## 14. TRANSPORT INFORMATION

### NZS 5433

UN number : 2758  
Proper shipping name : CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC  
(Methomyl, Ethanol)  
Class : 3 (6.1)  
Packing group : II

### IMDG

UN number : 2758  
Proper shipping name : CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC  
(Methomyl, Ethanol)  
Class : 3 (6.1)  
Packing group : II  
Marine pollutant : no

### IATA

UN number : 2758  
Proper shipping name : CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC  
(Methomyl, Ethanol)  
Class : 3 (6.1)  
Packing group : II

# SAFETY DATA SHEET



## DuPont™ Lannate® L insecticide

Version 3.0

Revision Date 18.8.2016

Document no. 130000034008

Matters needing attention for transportation : 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. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

### 15. REGULATORY INFORMATION

HSNO Number : HSR000584

Approved Handler : This product must be under the control of an approved handler during use at any quantity.

HSNO Controls : F1, F2, F3, F4, F5, F6, F11, F14, F16, F17  
T1, T2, T3, T4, T5, T6, T7  
E1, E2, E3, E4, E5, E6, E7, E8  
I1, I3, I5, I8, I9, I11, I13, I16, I17, I18, I19, I20, I21, I23, I25, I28, I29, I30  
P1, P3, P5, P13, P15, PG2  
D2, D4, D5, D6, D7, D8  
EM1, EM2, EM4, EM6, EM7, EM8, EM9, EM10, EM11, EM12, EM13

ACVM Number: P002244

### 16. OTHER INFORMATION

#### References

SDS Number: 130000034008

#### Revision Date/Version

Date of first preparation : 22.10.2015  
Revision Date : 18.8.2016  
Version : 3.00

Take notice of the directions of use on the label. Before use read DuPont's safety information.

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

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.