

# SAFETY DATA SHEET

**KIWICARE**<sup>®</sup>

Product Name: Carbaryl Insect Control

Issue Date: 7/02/2018

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## 1. PRODUCT AND COMPANY INFORMATION

<b>Product Name:</b>	<b>Carbaryl Insect Control</b>
Synonyms:	NO Insects Carbaryl 80
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	<a href="mailto:info@kiwicare.co.nz">info@kiwicare.co.nz</a>
Website:	<a href="http://www.kiwicare.co.nz">www.kiwicare.co.nz</a>
Emergency Contact Numbers:	
National Poisons Centre:	0800 764 766 (0800 POISON)

## 2. HAZARDS IDENTIFICATION

Dangerous Goods:	6.1
Packaging Group:	None allocated
Hazardous Substance (HSNO) Codes:	6.1C (Very toxic to humans) 6.7B (Suspected human carcinogen) 6.9B (Harmful to human target organs or systems) 9.1A (Very toxic to aquatic life) 9.2B (Toxic to soil organisms) 9.3B (Toxic to terrestrial vertebrates) 9.4A (Very toxic to terrestrial invertebrates)

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Insecticide

Appearance: White to cream powder

### Ingredients

Ingredients	CAS #	Content % w/w or w/v
Carbaryl	63-25-2	< 90% w/w
Silicon dioxide	112926-00-8	< 30% w/w
Calcium lignosulphate	8061-52-7	< 10% w/w
Polyoxyethylene nonylphenyl ether	9016-45-9	< 10% w/w

## 4. FIRST AID MEASURES

**Ingestion:** May be fatal if swallowed. If poisoning occurs, do not induce vomiting. To dilute the ingested product, give affected person one or two glasses of water or milk. Never give an unconscious person anything by mouth. Place in Recovery position. Obtain medical advice immediately.

**Eye Contact:** Irritating to eyes. Check for and remove any contact lenses if easy to do so. Do not use an eye ointment. Flush eyes with running water for 15 minutes holding eyelids open if necessary. Seek medical advice.

**Skin Contact:** Can be absorbed through skin. Wash skin thoroughly with soap and water.

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## 4. FIRST AID MEASURES

Inhalation:	Harmful if inhaled. Inhalation of dusts or sprays (mists) may be fatal. May lead to rapid onset of nausea, vomiting, tremors, muscle twitching and temporary paralysis. Breathing vapour or dust may aggravate acute or chronic asthma and chronic pulmonary disease such as emphysema or bronchitis.  Remove patient to fresh air. If ill effects persist call a doctor.
Notes to Physician:	This product causes reversible cholinesterase inhibition. Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced signs and symptoms. May lead to rapid onset of nausea, vomiting, diarrhoea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression and convulsions.

## 5. FIRE FIGHTING MEASURES

Specific Hazards:	When mixed with air in critical proportions and in the presence of an ignition source this product may pose an explosion hazard.
Suitable Extinguishing Media:	Small fires - Carbon dioxide, dry chemical.  Large fires – alcohol foam, polymer foam, water spray.
Fire Fighting Advice:	Fire fighters should wear a full set of protective clothing, including self-contained breathing apparatus.  Toxic fumes may be emitted including but not limited to, Oxides of Carbon, Nitrogen and trace levels of Methyl Isocyanate. Contain runoff.

## 6. ACCIDENTAL RELEASE MEASURES

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## 6. ACCIDENTAL RELEASE MEASURES

Spill Clean-up:

Minor Spills (Up to 50 kg):

Avoid dusty conditions. Wear appropriate personal protective equipment. Shovel up into an appropriate sealable container. For quantities up to 50kg of product bury in a secure approved landfill site.

Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

Major Spills (more than 50 kg):

As for minor spills. For quantities greater than 100kg seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established.

## 7. HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

Storage:

Store in a cool, dry, well ventilated place and protect from sunlight.

Store in original container, tightly closed, away from foodstuffs.

If fine dust is formed, dust/air mixtures can build up static electrical charges which may be explosive

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

Carbaryl – 5-15 mg/m<sup>3</sup>

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use in well ventilated areas. Where insufficient ventilation, use suitable respiratory protection. Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately.
Personal Protection:	Chemical goggles/face protection. Wear suitable protective clothing. Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Off white to pale yellow powder
Solubility:	Dispersible
Specific Gravity:	Not applicable
Boiling Point:	None allocated
Freezing Point:	None allocated
Melting Point:	None allocated
Vapour Pressure:	None allocated
Coefficient of Cubic Expansion:	None allocated
Relative Vapour Density:	None allocated
Decomposition Point:	None allocated
Viscosity:	Not applicable
Flash Point:	None allocated

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Electrostatic Generation:	None allocated
Auto-ignition Temperature:	None allocated
% Volatile by Volume:	None allocated
Flammable Limits:	None allocated
pH Value:	None allocated
Evaporation Rate:	None allocated
Explosion Hazard:	Dust
Formula:	Mixture
Molecular Weight:	Not applicable
Chemical Family:	None allocated
Other:	None allocated
Oxidising Agents:	None allocated
Acids:	None allocated
Alkalis:	None allocated
Salt or Freshwater:	None allocated
Exposure Standards (TLV-TW):	None allocated
Engineering Controls:	None allocated

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Strong acids and bases.
Corrosive Properties:	Not corrosive.

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## 10. STABILITY AND REACTIVITY

Thermal Decomposition: Toxic fumes may be emitted including but not limited to, Oxides of Carbon, Nitrogen and trace levels of Methyl Isocyanate.

## 11. TOXICOLOGICAL INFORMATION

General:

Acute Effects

Ingestion: Carbaryl –  
Acute LD50 oral rat male 850 mg/kg  
Acute LD50 oral rat female 500 mg/kg  
Acute LD50 oral rabbit 710 mg/kg

Eye Contact: Will irritate eyes.

Skin Contact: Rabbit – LD50 >2,00 mg/kg

Inhalation: No data found.

Long Term Effects: Repeated over exposure can cause nausea, vomiting, diarrhoea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression and convulsions.

Acute Toxicity: As above.

Chronic Toxicity: Carbaryl has been shown to cause tumors in laboratory animals in lifetime feeding studies and produces developmental toxicity in a number of species.

## 12. ECOTOXICITY INFORMATION

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## 12. ECOTOXICITY INFORMATION

Environmental Effects: Acute oral LD50 young Mallard duck >2179 mg/kg  
LC50 Rainbow trout (96 hours) 1.3 mg/L

Toxic to bees  
Toxic to fish and other aquatic invertebrates.  
Contaminated absorbent and wash water should be disposed of according to local and national regulations.

## 13. DISPOSAL CONSIDERATIONS

Product Disposal: For quantities up to 50kg of product bury in a secure approved landfill site. For quantities greater than 100kg seek advice from the manufacturer (use emergency contact number) before attempting disposal.

Container Disposal: Triple rinse the empty container adding rinseate to the spray tank. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

## 14. TRANSPORT INFORMATION

### Road and Rail

UN Number: 2757

Dangerous Goods Class: 9

Hazchem Code: 2X

Packaging Group: III

Proper Shipping Name: Insecticide

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## 14. TRANSPORT INFORMATION

Segregation: None allocated

### Marine

UN Number: 2751

Class: 9

Packaging Group: III

Proper Shipping Name: Insecticide

### Air Transport

UN Number: 2751

Class: 9

Packaging Group: III

Proper Shipping Name: Insecticide

## 15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR000819

HSNO Classifications: 6.1C, 6.7B, 6.9B, 9.1A, 9.2B, 9.3B, 9.4A

HSNO Controls: See EPA website - [www.epa.govt.nz](http://www.epa.govt.nz)

HSNO Approved codes of Practice: See EPA website - [www.epa.govt.nz](http://www.epa.govt.nz)

## 16. OTHER INFORMATION

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## 16. OTHER INFORMATION

Emergency Contact	24 Hours
Work Hours	National Poisons Centre
Kiwicare Corporation	PO Box 913
225 Maces Road	Dunedin
PO Box 15050	Tel: 0800 764 766 (POISON)
Christchurch	
Tel: (03) 389 0778	
Fax: (03) 389 0669	

All Safety Data Sheets are subject to review and should not be left longer than three years before and update is obtained.

For further information visit the Kiwicare web site, [www.kiwicare.co.nz](http://www.kiwicare.co.nz), or contact the supplier.

The information in this document should be made available to all who may handle the product

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

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