

# Safety Data Sheet

GHS Hazardous Chemical.  
Not subject to the Australian Dangerous Goods Code by Road & Rail.  
Dangerous Goods by Air (IATA Regs) and Sea (IMDG Code).

## Carbaryl Wettable Granule Insecticide

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### IDENTIFICATION

**Product Names:** Carbaryl Wettable Granule Insecticide

**Other Names:** Carbaryl Insecticide Granule; 1-Naphthyl Methylcarbamate 80%.

**Product Code(s):** 1kg, 10kg

**USE:** Contact and ingestion insecticide (an Anticholinesterase compound) - for control of Codling Moth, Light Brown Applemoth, Cabbage White butterfly, Caterpillars and Vegetable bugs.

**COMPANY DETAILS:** Kendon Chemical & MNFG. Co. Pty Ltd  
A.B.N. 27 004 281 967  
10 Abbot Street  
Fairfield, Victoria 3078  
Phone: 03 9497 2822  
Fax: 03 9499 7225

**Emergency Telephone No:** **Business Hrs** 03 9497 2822  
**After Hrs** 0418-530-461 (General Manager)  
0409-577-174 (Technical Manager)

### 2. HAZARD IDENTIFICATION

**Emergency Overview:** White granule with no odour. Harmful, Environmental Hazard. Harmful by skin contact and if swallowed. Released dust is harmful by inhalation. Limited evidence of carcinogenic effect. Very toxic to aquatic life. Toxic to bees.

#### GHS Hazardous Chemical Information:

Classified as a Hazardous Chemical to the Australian GHS Criteria and Environmentally Hazardous Criteria.

**Signal Word:** WARNING

**Classification:** Acute Toxicity - Oral - Category 4  
Acute Toxicity - Inhalation - Category 4  
Carcinogenicity - Category 2  
Aquatic Env. - Acute Hazard - Category 1



**Hazard Statements:** Harmful if swallowed.  
Harmful if inhaled (from fine inspirable dust).  
Suspected of causing cancer.  
Very toxic to aquatic life. Toxic to bees.

#### Precautionary Statements

**- Prevention** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, eye protection / face protection.  
Avoid breathing dust / mist / spray.  
Use only outdoors or in a well-ventilated area.  
Do not eat, drink or smoke when using this product.  
Wash hands thoroughly after handling.  
Avoid release to the environment.

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## Carbaryl Wettable Granule Insecticide

- Response** IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER / doctor  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
IF exposed or concerned: Get medical advices / attention.  
Take off contaminated clothing and wash before reuse.  
Collect spillage.
- Storage** Keep container tightly closed.  
Store locked up.
- Disposal** Dispose of contents / container in accordance with the Local, State & Federal EPA waste regulations.

**Not subject to the Australian Code** for the Transport of Dangerous Goods by Road & Rail (ADG Code).  
See Special Provision SP AU01. (see Sections 7 & 14.)

**IF** transported by air (IATA Regs) or sea (IMDG Code) it classifies and is transported as:

UN 3077 Class 9, Packing Group III,  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (CARBARYL 80%),  
MARINE POLLUTANT

**Hazardous Substance:** Harmful, Environmental Hazard (For information only)

Harmful if swallowed. Fine inspirable dust is harmful by inhalation. Limited evidence of carcinogenic effect.  
Very toxic to aquatic organisms. Toxic to bees. (For information only)

**Poison Schedule** S6 **Signal Word** POISON

### Acute Health Effects

Swallowed Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhea and abdominal pain. Other symptoms include involuntary shaking, excessive salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression and convulsions.

Eye May cause redness, irritation and tearing.

Skin Harmful by skin contact (if absorbed) (see under swallowed). May cause skin irritation.

Inhaled Released dust is harmful by inhalation. May cause respiratory irritation as a mist.

### Chronic Health Effects

All Routes Regular exposure may result in lowering of the Cholinesterase activity in animals.  
Prolonged or repeated skin contact may lead to drying of the skin and dermatitis.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Carbaryl [1-Naphthalenol Methylcarbamate]	80%	63-25-2
Talc (Filler) [Magnesium Silicate Hydrate Mineral] *	10-20%	14807-96-6
Respirable Crystalline Silica (impurity in the Talc) #	<0.1%	14808-60-7
Surfactant (non hazardous)	1-10%	CAS-ON-AIIC
Other Ingredients Classified as Non-Hazardous	1-10%	CAS-ON-AIIC

\* The Talc contains no Asbestos fibres.

# The product is in Granule form with low powder present, so that there is <0.1% Respirable Crystalline Silica present when handled in a careful standard manner. The granules must be handled with care to minimise any crushing and any release of Respirable Crystalline Silica.

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## Carbaryl Wettable Granule Insecticide

### 4. FIRST AID MEASURES

<b>Swallowed:</b>	If swallowed rinse mouth with water. Give plenty of water to drink. If more than 15 minutes from a hospital consider inducing vomiting but only under medical direction. Seek immediate medical assistance.
<b>Eyes:</b>	If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open. Immediately transport to hospital or doctor.
<b>Skin:</b>	If this product comes into contact with skin, wash skin with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again. If swelling, redness, blistering or irritation occurs seek medical advice.
<b>Inhaled:</b>	Remove victim to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Avoid giving alcohol. Seek medical advice if effects persist. Effects may be delayed.
<b>First-Aid Facilities:</b>	Eye wash and safety shower, plus normal washroom facilities nearby.
<b>Advice to Doctor:</b>	Treat symptomatically. This product contains a Methyl Carbamate insecticide, which is a reversible Cholinesterase inhibitor. The effects of overexposure are spontaneously and rapidly reversible.  If swallowed Activated Charcoal may be advised. Consider administering Atropine. Diazepam should be included in therapy of all but the mildest cases as it appears to counteract some aspects of the CNS derived symptoms that are not affected by Atropine.  Oxime Cholinesterase reactivators are contraindicated as they may make the poisoning by Carbaryl worse.

### 5. FIRE-FIGHTING MEASURES

<b>Fire or Explosion Hazard:</b>	Not a fire or explosion hazard. Will burn, but does not ignite readily. Fine, dry material may form flammable organic dust clouds in air.
<b>Extinguishing Media:</b>	Water fog (or if unavailable fine water spray); Carbon Dioxide, Dry Chemical, Foam.
<b>Combustion Product Hazards:</b>	Irritating, toxic, corrosive: Oxides of Nitrogen (NOx). May form Carbon Monoxide and smoke (if combustion is incomplete).
<b>Special Protective Precautions &amp; Equipment:</b>	Move containers from the fire area if it can be done without risk. If containers are exposed to fire, keep them cool by spraying with water. Decomposition products are toxic. Fire-fighters may need to wear self contained breathing apparatus under fire conditions, especially in confined spaces.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Accidental Release Measures:</b>	Wear protective equipment in accordance with Section 8. Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Contain spill and cover with damp inert absorbent (such as vermiculite, clay, sand, soil). Sweep or vacuum up, but avoid generating dust. Collect spilled material and waste in labelled, sealable containers for recycling or disposal. After final cleanup of the spill, wash the area with detergent and excess water, preventing run off from entering drains.
<b>Disposal:</b>	See Section 13 for Disposal Considerations

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## Carbaryl Wettable Granule Insecticide

### 7. HANDLING AND STORAGE

**Handling:** Apply in accordance with the Directions for Use label. Premix the required amount of product with water prior to adding to the spray tank. Keep agitated whilst spraying. The granules must be handled with care to minimise any crushing and any release of Respirable Crystalline Silica. Toxic to honey bees. Do NOT spray any plants in flower while bees are foraging. Keep domestic pets and poultry away from treated areas. Do not spray in high winds. Do NOT allow dams, waterways or sewers to be contaminated with this product. Do NOT apply if rain is expected within 24 hours.

**Storage:** Store in the closed, original container in a cool, well ventilated area. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Do not store for in direct sunlight. Store away from sources of heat or ignition and strong oxidising agents. Keep containers closed at all times. Classified as Environmentally Hazardous Substance Dangerous Goods according to the ADG Code 7<sup>th</sup> Ed. Store in accordance with Work Health & Safety Regulations or Dangerous Goods (Storage & Handling) Regulations and AS/NZS 4681: The Storage and Handling of Class 9 (miscellaneous) Dangerous Goods and Articles, AND AS 2507: The Storage and Handling of Agricultural and Veterinary Chemicals & AS 2508.10.001: Safe Storage and Handling Information Card - Agricultural and veterinary chemicals (Packaged products only)

**Note: ADG Code Special Provision SP AU01** allows packaging <500kg or <500L and all IBCs to be not subject to this Code when transported by road and rail.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards:** Exposure Standards determined by Safe Work Australia (formerly ASCC, NOHSC).  
**Carbaryl** 5 mg/m<sup>3</sup> TWA  
**Talc** (containing no asbestos fibres) 2.5 mg/m<sup>3</sup> TWA As Inspirable Dust  
**Quartz** (Crystalline Silica) 0.05 mg/m<sup>3</sup> TWA As Respirable Dust

**Design & Engineering Control Measures:** Handle in well ventilated areas, natural ventilation is generally adequate.

**Personal Protective Equipment:** Avoid skin, eye and respiratory contact.  
EYES: Wear chemical goggles or faceshield.  
GLOVES: PVC or Rubber.  
RESPIRATORY: If exposure to spray (or released dust) is expected, select and use respirators in accordance with AS/NZS 1715/1716.

When opening the container, preparing spray and using the prepared spray wear washable cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC or rubber gloves and a face shield to protect the face from spray mist.

When handling or using in enclosed areas (where the handling of the granules may release a dust or a mist), wear goggles and half face piece respirator with combined dust and gas cartridge.

Always wash hands before smoking, eating, drinking or using the toilet.

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**Requirements Concerning Special Training** Regulations require that people who use pesticides in their job or business must have training in the application of the materials.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	White granule (water dispersible)
Appearance and Odour	White granule with no odour.
Chemical Formula (for the main ingredients)	Carbaryl: C <sub>12</sub> -H <sub>11</sub> -N-O <sub>2</sub> Carbaryl: MW: 201.22
Melting Point / Boiling Point	MP: 142°C (Carbaryl ingredient) BP: Not Available (Decomposes)
Vapour Pressure	4.1 x 10 <sup>-2</sup> mPa at 23.5°C (for Carbaryl)
Specific Gravity	>1.2 g/cm <sup>3</sup>
Relative Vapour Density	Not available
Solubility	Disperses in water due to the surfactant present. Carbaryl Solubility without dispersant: 40 mg/L at 30°C The Talc ingredient is insoluble in water.
Percent volatile by volume	Nil at 20°C
pH	Not available
Odour Threshold	Not available
Saturated Vapour Conc'n	Not available
Evaporation Rate	Not available (Butyl Acetate = 1)
Octanol/Water Partition Co-efficient	log P(o/w) 1.59-2.3 (for Carbaryl from IPCS Inchem EHC 153)
Corrosiveness	Not corrosive.
<b>Flammable Properties</b>	Combustible solid, but does not burn readily
Flashpoint	Not available
Flammability Limits (FL) (%)	Not available
Auto-ignition Temp	Not available

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions. It is stable to light and heat (to 70°C) and Acids, but easily hydrolysed by Alkali.
<b>Conditions To Avoid:</b>	Ignition sources. Temperatures above Carbaryl melting point.
<b>Incompatible Materials:</b>	Alkalis; Strong Acids; Strong Oxidizers; Strong Reducing Agents.
<b>Unsuitable Container Materials:</b>	None known.
<b>Hazardous Decomposition Products:</b>	Toxic, corrosive fumes of Oxides of Nitrogen (NO <sub>x</sub> ); when heated to full decomposition. Carbon Monoxide and smoke (if combustion is incomplete).
<b>Hazardous Reactions:</b>	Hazardous polymerisation will not occur.

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### 11. TOXICOLOGICAL INFORMATION

**Carbaryl (as 80%)** in these products is classified as harmful by skin contact and if swallowed. Released dust is harmful by inhalation. Suspected of causing cancer.

This is based on a      Calculated Acute Oral Toxicity LD50 (rat)      of 246 mg/kg x 100/80      = **307 mg/kg**  
And a                      Calculated Acute Inhal'n Toxicity LC50 (rat)      of 2.50 mg/L/4hrs x 100/80 = **3.1 mg/L/4hrs**

#### Carbaryl (as 100%)

<b>Acute Oral Toxicity:</b>	LD50 (rat)	246 mg/kg for Carbaryl	From APVMA Review 2006
	LD50 (rat)	246-963 mg/kg for Carbaryl	From 19 results in EHC153
	LD50 (rat)	400-800 mg/kg for Carbaryl	Averaged LD50 minimums & maximums from EHC 153
<b>Acute Skin Toxicity</b>	LD50 (rabbit)	710 mg/kg for Carbaryl	From APVMA Review 2006
	LD50 (cat)	150 mg/kg for Carbaryl	
	LC50 (rabbit)	>2000 mg/kg for Carbaryl	From EHC153
<b>Acute Inhal'n Toxicity</b>	LC50 (rat)	2.50 mg/L/4hrs for Carbaryl	

**Skin Irritation**                      Minimal skin irritation (rabbit).  
**Eye Irritation**                      Minimal eye irritation (rabbit).

**Chronic Effects**                      Regular exposure may result in lowering of the Cholinestrase activity in animals.

**Mutagenic Effects**                      The available evidence indicates that Carbaryl does not present a mutagenic risk.

**Carcinogenic Effects**                      Some animal test data suggests a carcinogenic potential for this material, see in the brackets below. These particular data sets are not considered relevant to normal industrial use but emphasise the need for care in handling. (Rare vascular tumours were observed in studies on mice. The evaluation indicates that the increase in these tumours was likely to be species specific.) The Australian HCIS is based on the ECHA CLP Criteria classification of Carbaryl with Hazard Statement H351 – Suspected of causing cancer.

**Reproductive Effects**                      Reproductive and perinatal developmental adverse effects have been observed in a number of species, following oral doses at maternally toxic doses. Effects on reproduction include impairment of fertility, decreased litter size, and reduced postnatal viability. Developmental toxicity is seen as increased *in utero* death, reduced fetal weight, and the occurrence of malformation. No such effects occurred where doses were not maternally toxic.

**Nervous System Effects**                      The effects of Carbaryl on the nervous system are primarily related to cholinesterase inhibition and are usually transitory. The effects on the central nervous system were studied in rats and monkeys. Oral doses of 10-20 mg Carbaryl/kg for 50 days were reported to disrupt learning and performance in rats.  
**Human Exposure**                      In controlled studies on human volunteers, single doses of less than 2 mg/kg were well tolerated. A single dose of 250 mg (2.8 mg/kg) produced moderate ChE inhibition symptoms (epigastric pain and sweating) within 20 min. Complete recovery occurred within 2 h of treatment with atropine sulfate.

In cases of occupational overexposure to Carbaryl, mild symptoms are observed long before a dangerous dose is absorbed, which is why severe cases of occupational intoxication with Carbaryl are rare.

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## Carbaryl Wettable Granule Insecticide

### WHO IPCS Inchem Environmental Health Criteria 153 Conclusions for Carbaryl

The hazards of Carbaryl for human beings are judged to be low, because of its low vapour pressure, rapid degradation, rapid spontaneous recovery of inhibited cholinesterase, and the fact that symptoms usually appear well before a dangerous dose has accumulated in the body. Good carcinogenicity studies, which meet modern standards, are not yet available.

#### Talc (as 100%)

Acute Oral Toxicity LD50 (rat): >2000 mg/kg  
Acute Dermal Toxicity LD50 (rabbit): >2000 mg/kg  
Eye Irritation (rabbit): May cause physical eye irritation  
Skin Irritation (rabbit): May cause physical skin irritation  
Respirable (<7µm) Talc may cause Talcosis, a pulmonary fibrosis which may in turn lead to severe and permanent damage to the lungs with shortness of breath.

#### Respirable Crystalline Silica (<0.1% impurity from the Talc in Granule form):

Excessive exposure to Respirable (<7µm) Crystalline may cause Silicosis, a pulmonary fibrosis which may in turn lead to severe and permanent damage to the lungs with shortness of breath.

Respirable (<7µm) Crystalline Silica is classified as a Group 1 Carcinogen to humans by inhalation by the WHO International Agency for Research on Cancer (IARC).

## 12. ECOLOGICAL INFORMATION

**General:** Very toxic to aquatic life. Toxic to honey bees. Water polluting substance.  
Severe Marine Pollutant. Avoid contaminating waterways.

**Ecotoxicity Data:** Data for the active ingredient, Carbaryl (as 100%):

#### Acute Toxicity - Fish

LC50 (Rainbow Trout, 96hrs) : 1.3 mg/L  
LC50 (Bluegill Sunfish, 96hrs) : 10 mg/L  
LC50 (Sheepshead Minnow, 96hrs) : 2.2 mg/L  
LC50 (Lake Trout, 96hrs) : 0.69 mg/L [NZ HSNO CCID]

**Acute Toxicity -Daphnia** EC50 (48hr) : 0.006 mg/L

#### Acute Toxicity – Birds

Acute Oral Toxicity LD50 (Mallard Ducks) >2179 mg/kg  
Acute Oral Toxicity LD50 (Pheasants) >2000 mg/kg  
Acute Oral Toxicity LD50 (Japanese Quail) 2230 mg/kg  
Acute Oral Toxicity LD50 (Pigeons) 1000-3000 mg/kg

**Very Toxic to Bees LD50** 0.2 µg/bee (about 1-2 mg/kg)

**Very toxic to earthworms** (IPCS Inchem Env.Heath Criteria 153)

**Octanol Water Partition Co-efficient** log Pow 1.59-2.3  
(for Carbaryl from IPCS Inchem EHC 153)

**Persistence & Degradability** Substantially biodegradable in soil. Half life of 8 days to 1 month at the usual application rates. No appreciable bioaccumulation is expected. The major hydrolysis degradation products are 1-Naphthol, Carbon Dioxide and Methylamine.

**Mobility:** Dispersible in water so will be readily mobile. Carbaryl is adsorbed more readily on soils with a high organic content than on sandy soils.

**Other Ingredients** **Talc (as 100%)** Not environmentally hazardous. It is a natural mineral.

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## Carbaryl Wettable Granule Insecticide

### 13. DISPOSAL CONSIDERATIONS

- Disposal:** Disposal to be in accordance with Local, State & Federal EPA waste regulations. Advise its harmful, and pesticide hazardous effects.  
Do NOT dispose of the undiluted product on-site.  
Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemCollect). Product should NOT be burnt.
- Empty Containers:** Do not use this container for any other purpose.  
Triple rinse containers or preferably pressure rinse containers, add rinsings to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.  
**drumMUSTER** is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.  
If not recycling, break, crush or puncture and bury containers in a local authority approved landfill. Empty containers and product should NOT be burnt.

### 14. TRANSPORT INFORMATION

#### ROAD & RAIL:

1/ **Not subject to the Australian Code** for the Transport of Dangerous Goods by Road & Rail (ADG Code). See Note & Special Provision SP AU01 below.

2/ **Not Dangerous Goods:** by the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) as the Preparation Acute Oral Toxicity LD50 (rat) is >300 mg/kg with Carbaryl at 80%. This is supported by the Hazardous Chemicals classification with H302 – Harmful if swallowed.

**Note:** The 7<sup>th</sup> Edition of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) classifies this product as an Environmentally Hazardous Substance Dangerous Goods.

**Special Provision SP AU01** allows packaging <500kg or <500L and all IBCs to be not subject to this Code when transported by road and rail.

**SEA:** Dangerous Good according to the International Maritime Dangerous Goods Code (IMDG Code).

**AIR:** Dangerous Good according to the International Air Transport Association (IATA) Dangerous Goods Regulations.

**UN Number (Sea & Air):** 3077

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CARBARYL 80%)

**Dangerous Goods Class:** 9

**Subsidiary risk:** -

**Packing Group:** III

**Hazchem Code:** Not Applicable to 1kg and 10kg containers.

continued

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## Carbaryl Wettable Granule Insecticide

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76): 47  
Marine Pollutant to IMDG Code: Yes

Australian Emergency Response Guide Book 2021 (Free 386 page pdf)  
<https://www.ntc.gov.au/codes-and-guidelines/australian-dangerous-goods-code>  
**Guide 171** Substances (Low to Moderate Hazard)

Or the Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76):  
**Guide No: 47** Low to Moderate Hazards

Marine Pollutant to IMDG Code: **Yes**

### 15. REGULATORY INFORMATION

#### GHS Hazardous Chemical Information:

Classified as a Hazardous Chemical to the Australian GHS Criteria and Environmentally Hazardous Criteria.

**Signal Word:** **WARNING**

**Classification:** Acute Toxicity - Oral - Category 4  
Acute Toxicity - Inhalation - Category 4  
Carcinogenicity - Category 2  
Aquatic Env. - Acute Hazard - Category 1



**Hazard Statements:** H302 - Harmful if swallowed.  
H332 - Harmful if inhaled (from fine inspirable dust).  
H351 - Suspected of causing cancer.  
H400 - Very toxic to aquatic life.  
Toxic to bees.

#### Precautionary Statements

- Prevention** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, eye protection / face protection.  
P261 - Avoid breathing dust / mist / spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.
- Response** P301+330+310 - IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER / doctor  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P333+313 - If skin irritation or rash occurs: Get medical advice/attention.  
P305+351+338+310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P308+313 - IF exposed or concerned: Get medical advices / attention.  
P362+364 - Take off contaminated clothing and wash before reuse.  
P391 - Collect spillage.
- Storage** P233 - Keep container tightly closed.  
P405 - Store locked up.
- Disposal** P501 - Dispose of contents / container in accordance with the Local, State & Federal EPA waste regulations.

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**Hazardous Substance** (For information only)

**Harmful, Environmental Hazard** (For information only)

(Fine inspirable dust is) harmful by inhalation. Harmful if swallowed.

Limited evidence of carcinogenic effect. Very toxic to aquatic organisms. Toxic to bees. (For information only)

**Dangerous Goods: Not** subject to the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code). See Special Provision SP AU01. **IF transported by air** (IATA Regs) **or sea** (IMDG Code) it classifies and is transported as Dangerous Goods. (see Section 14)

**SUSMP Schedule Poison: S6** (Carbaryl is specifically listed) **POISON**

KEEP OUT OF REACH OF CHILDREN. READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AIIC & APVMA: All ingredients are on the Australian Inventory of Industrial Chemicals or are approved to be used in accordance with the Australian Pesticides and Veterinary Medicines Authority.

APVMA Product No. 69322 (see APVMA PUBCRIS)

### 16. OTHER INFORMATION

**Key Reference:** WHO IPCS Inchem Environmental Health Criteria 153 for Carbaryl which is available from <https://inchem.org/documents/ehc/ehc/ehc153.htm> (1994)

**APVMA Carbaryl Chemical Review:** <http://apvma.gov.au/node/12416>

#### SDS Dates and Revisions

SDS Original Preparation Dates : May 2004, Aug 2006, Mar 2009, May 2013, Oct 2016, 5 Apr 2017  
SDS Latest Revision Date : 19<sup>th</sup> January 2021  
Sections Changed in Latest Revision : Sections S2, S7, S8, S9, S11, S14, S15, S16.

**Contact Point:** phone: (03) 9497 2822 email: [CStory@Kendon.com.au](mailto:CStory@Kendon.com.au)  
mobile:0418-530-461 (General Manager)

SDS APPROVED: Kendon Chemical & MNFG

#### Acronyms Used

ADG Code Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road & Rail  
Safe Work Australia Safe Work Australia (SWA) (since 2009). Administers ASCC & NOHSC documents.  
HCIS Hazardous Chemicals Information System at: <http://hcis.safeworkaustralia.gov.au/>  
NZ EPA HSNO Environmental Risk Management Authority New Zealand, HSNO Chemical  
CCID Classification Information Database. <https://www.epa.govt.nz/database-search/>  
PubChem (NLM) USA NIH National Library of Medicine <https://pubchem.ncbi.nlm.nih.gov/>  
e-ChemPortal Global Portal to Information on Chemical Substances  
<https://www.echemportal.org/echemportal/substance-search>  
ECHA European Chemicals Agency at <http://echa.europa.eu/>  
ECHA RSD ECHA Registered Substances Database (with SIEF results of chemical reviews)  
<http://echa.europa.eu/information-on-chemicals/registered-substances>  
ECHA C&LID ECHA Classification & Labelling Inventory Database  
<http://echa.europa.eu/information-on-chemicals/cl-inventory-database>  
EFSA Carbaryl European Food Safety Authority (EFSA) May 2006: Carbaryl  
<https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2006.80r>  
WHS Workplace Hazardous Substance

# Safety Data Sheet

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## Carbaryl Wettable Granule Insecticide

CAS No. Chemical Abstracts Service Registry Number  
UN No. United Nations Dangerous Goods Number  
SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

**SDS Code Used** This SDS has been prepared according to the Australian SWA Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals July 2020 (122 page pdf)  
[www.safeworkaustralia.gov.au/doc/model-code-practice-preparation-safety-data-sheets-hazardous-chemicals](http://www.safeworkaustralia.gov.au/doc/model-code-practice-preparation-safety-data-sheets-hazardous-chemicals)

This SDS summarises to the best of our knowledge the health and safety hazard information on the product and how to safely handle and use the product in the workplace, and should not be construed as guaranteeing specific technical properties. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Since methods and conditions are beyond our control, in inappropriate contexts we do not accept liability for any damages resulting from the use of, or reliance on, this information.

**Reviewers Initials / Yr / Mth: JS2201**