



# SAFETY DATA SHEET

## SEVIN FLO®

Date of Issue: 1 June 2016

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Carbaryl  
**Recommended use:** Broad spectrum insecticide  
**Supplier:** Etec Crop Solutions Ltd  
PO Box 51584  
Pakuranga 2140  
Auckland  
**Emergency telephone number:** 0800 Chem Call (0800 243 622) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** HSNO classification 6.1C, 6.5B, 6.7B, 6.9B, 9.1A, 9.2A, 9.3B, 9.4A  
**Required identification Details:** Toxic - may be harmful if swallowed.  
Harmful – suspected of causing cancer.  
Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses.  
Toxic to aquatic organisms – must not be applied directly onto or into water.  
Toxic to the soil environment.  
Toxic to terrestrial vertebrates.  
Very toxic to terrestrial invertebrates.  
Toxic to bees – spray must not contact plants in flower if they are likely to be visited by bees.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	% (w/v)
Carbaryl	63-25-2	44.0%

### 4. FIRST-AID MEASURES

**Description of necessary first aid measures:** In case of poisoning by any exposure route, contact the **Emergency Response Service, CHEMCALL. Phone 0800 243 622, 0800 CHEMCALL.**

#### Hygiene Practices

Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves

and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing after work.

## **Effects and symptoms**

### **First-aid measures**

#### **Inhalation:**

Move person to fresh air without exposing yourself and keep at rest until recovered. If there is a breathing problem give oxygen.

#### **Ingestion:**

Apply artificial respiration if necessary.

Wash out mouth with water. Induce vomiting if patient is fully conscious, time since ingestion is less than 30 minutes and medical aid is not readily available (vomit should not get into respiratory tract). Keep body calm, protected against loss of heat. Seek medical advice immediately.

#### **Skin contact:**

If skin contact occurs, remove contaminated clothing and wash affected areas thoroughly with soap and water. If symptoms persist, call a doctor.

#### **Eye contact:**

If product gets in eyes wash it out immediately with water, also under the eyelids, for at least 15 minutes and consult a doctor.

#### **Notes to a physician:**

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds. In case of accident or if you feel unwell, seek medical advice immediately.

#### **Workplace facilities:**

No specific facilities required. Standard emergency equipment must be available.

#### **Required Instructions:**

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## **5. FIRE-FIGHTING MEASURES**

#### **HAZCHEM Code:**

2X

#### **Extinguishing media :**

Water spray. Foam, carbon dioxide (CO<sub>2</sub>), dry powder.

#### **Hazardous thermal (de)composition products:**

The product itself does not burn. In the event of fire, the following can be released:  
Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>)

#### **Protection of fire-fighters:**

When fighting a major fire wear an air-supplied respirator. Wear protective equipment.

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## **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions:**

**Emergency Procedures:** Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.

**Environmental precautions:**

Washings must be prevented from entering surface water drains or waterways.

**Methods for cleaning up:**

Do not discharge into drains/surface water/ground water.

**Procedure for spill:**

Keep all bystanders away.

Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length and PVC gloves.

Contaminated material must be disposed of in accordance with all local authority requirements.

- For quantities up to 50L of product, bury in a secure approved landfill site.
- For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established.

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

**Procedure for disposal:**

a) Triple rinse or, preferably, pressure rinse containers with water. Add rinsate to the spray tank. DO NOT dispose of undiluted chemicals on site.

b) Submit clean empty container for recycling through Agrecovery. If this is not possible, burn if permitted and circumstances, especially wind direction, allow otherwise bury in landfill.

c) Product or unused spray mix should be disposed of according to label instructions.

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## 7. HANDLING AND STORAGE

**Handling Practices:**

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

**Storage:**

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

**Packaging materials:**

Store in original container. Tightly closed, away from Foodstuff, drink and animal feedstuffs.

**Spray drift:**

The person applying this substance must not cause adverse effects beyond the boundary of the treated property, and must also avoid adverse effects from spray drift occurring. Mitigation measures employed must be recorded as part of the application records (i.e. in spray diaries).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation specification:**

Use in well ventilated areas.

**Personal Protective Equipment****Detail specifications for equipment:**

**Respiratory system:** Where insufficient ventilation, use suitable respiratory protection.

**Skin and body:** Wear suitable protective gloves (eg. Polyvinyl chloride – PVC).  
After contamination with product, change the gloves immediately.

**Eyes:** Chemical goggles/face protection.

**General hygiene:** Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hands before breaks and after work. Change contaminate protective clothing. Keep away from food, drinks and tobacco.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Colour:** White opaque

**Odour:**

**pH:** 5.2 – 6.1 (determined as a 1% suspension in distilled water)

**Vapour Pressure:**

**Vapour Density:**

**Boiling Point:** >100°C

**Freezing/melting point:** Freezing -4°C

**Solubility:** Completely miscible

**Specific gravity or density:** SG 1.1 at 20°; density 1.09gm/L

**Information for flammable material including:**

- **Lower and upper flammability limits**
- **Flashpoint (state test Method)** Not flammable

**Auto – ignition Temperature:** 530°C

**Octanol/water partition coefficient:**

**Explosion properties:**

**Oxidation properties:**

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable under standard conditions

**Conditions to avoid:** None

**Materials to avoid:** Not applicable

product)

**Hazardous decomposition Products:**

**Thermal decomposition:** 175 - 190°C. Note: Exothermic decomposition.

**Specific Data:**

**Hazardous reactions :** No hazardous reactions when stored and handled according to the label.

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**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity – Oral :** LD<sub>50</sub>: rat > 358 mg/kg

**Acute toxicity - Dermal :** LD<sub>50</sub>: rat > 2200 mg/kg

**Acute toxicity – Inhalation:** LD<sub>50</sub>: rat > 1.8 mg/L – exposure time 4h

**Skin irritation :** Non-irritant (rabbit)

**Eye irritation:** Non-irritant (rabbit)

**Sensitization :** Non-sensitising (Buehler test)

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Fish**

LC<sub>50</sub>: 1.4 mg/L; Rainbow trout (*Oncorhynchus mykiss*)

**Daphnia magna**

EC<sub>50</sub>: >0.013 mg/L (48 h); Water flea (*Daphnia magna*)

**Algae**

IC<sub>50</sub>: 1.8 mg/L (96h); (*Selenastrum capricornutum*) \

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**13. DISPOSAL CONSIDERATIONS**

**Methods of disposal:** Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

**Container disposal:** Triple rinse or the empty container and add rinsate to the spray tank. Submit clean empty container for recycling through Agrecovery. If this is not possible, burn if permitted and circumstances, especially wind direction, allow.

Otherwise bury in landfill.

Do not use the container for any other purpose.

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**14. TRANSPORT INFORMATION**

**International transport regulations**

**International transport regulations:**

**UN number:** UN3082

**Land - Road/Railway** UN3082 Environmentally Hazardous Substance, Liquid, N.O.S, (Carbaryl) Class 9, Packing Group III, Hazchem 2X

**Proper shipping name :** Environmentally Hazardous Substance, Liquid, N.O.S,

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(Carbaryl) Class 9, Packing Group III, Hazchem 2X

Marine Pollutant for Marine Transport only.

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## 15. REGULATORY INFORMATION

**ACVM Registered Number:** P4042  
**ACVM Controls:** See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)  
**HSNO Approval Code:** HSR000680  
**HSNO Controls:** See [www.epa.govt.nz](http://www.epa.govt.nz)

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## 16. OTHER INFORMATION

### Additional information:

*Disclaimer*                      *To the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Etec Crop Solutions Ltd as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.*

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