



SEVIN T & O

MSDS Version 1.3

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name SEVIN T & O
Chemical Name
Synonym
MSDS Number 1798
Chemical Family
Chemical Formulation
EPA Registration No.
Canadian Registrat. No. 26873

Bayer CropScience Inc
 #100 - 3131 - 114th Avenue SE
 Calgary, AB T2Z 3X2
 Canada

Emergency Number (24 Hours/Day): 1-800-334-7577 Product Information: 1-888-283-6847

Product Use Description INSECTICIDE

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
CARBARYL, (1-NAPHTHYL N- METHYLCARBAMATE)	63-25-2	>= 40.0000	<= 60.0000
1,2-Propylene glycol	57-55-6	>= 4.0000	<= 5.0000
Other Inerts (None established)		>= 35.0000	<= 56.0000

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview May be fatal if swallowed. Harmful if inhaled. Harmful if absorbed through the skin.
Physical State liquid
Odor Mild odor.
Routes of Exposure Oral. Inhalation. Dermal - skin.
Immediate Effects
Eye May cause moderate eye irritation.

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Skin	Harmful if absorbed through the skin. May cause mild skin irritation.
Ingestion	May be fatal if swallowed. May lead to rapid onset of nausea, vomiting, abdominal pain, diarrhea, pinpoint pupils, blurred vision, profuse sweating, salivation, tremor, muscle twitching, and temporary paralysis. In severe poisoning respiratory depression and convulsions may occur.
Inhalation	Harmful if inhaled. Inhalation of dusts or sprays (mists) may lead to symptoms as described above for swallowing. May be irritating to the respiratory tract.
Chronic or Delayed Long-Term	None known.
Medical Conditions Aggravated by Exposure	Dermal ailments.

SECTION 4. FIRST AID MEASURES

Eye	For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.
Skin	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.
Ingestion	If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Note to Physician	<p>Treat symptomatically. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. This product contains a methyl carbamate insecticide. Which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. These effects of overexposure are spontaneously and rapidly reversible. Specific treatment consists of parenteral atropine sulfate. Improve tissue oxygenation as much as possible before administering atropine to minimize the risk of ventricular fibrillation.</p> <p>Mild cases may be given 1 to 2 mg intramuscularly every 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear.</p> <p>Severe cases should be given 2 to 4 mg intravenously every 10 minutes until fully atropinized, then intramuscularly every 30 to 60 minutes as needed to maintain the effect for at least 12 hours.</p> <p>Dosages for children should be appropriately reduced. Complete recovery from</p>

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over-exposure is to be expected. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (Pyridine-2-aldoxime methiodide) are not recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	Flash Point: No flash point. Flammable: No
Auto Ignition Temperature	Unknown
Upper Flammable Limit	NA
Suitable Extinguishing Media	Water fog, carbon dioxide, foam, dry chemical.
Fire Fighting Instructions	Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.
Dust Explosion Class	SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is not expected.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Land Spill or Leaks	Avoid runoff to natural waters. Absorb spills on inert material such as perlite, vermiculite, sand or dirt, then wet with water. Place in double polyethylene bags. Isolate from other waste materials.
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SECTION 7. HANDLING AND STORAGE

Handling Procedures	Avoid contact with eyes, skin and clothing. Do not wear contact lenses. Keep away from food and feed products. Keep container closed when not in use. Store upright in a cool place below 35 °C (100 °F). Do not reuse this container.
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use in a well ventilated area.
Eye/Face Protection	Monogoggles.
Body Protection	All cleanable impervious glove types are acceptable. Wear shirt with long sleeves.
Respiratory Protection	Use an approved pesticide respirator if ventilation is not adequate or exposure to

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sprays, mists or vapours is likely.

Exposure Limits

		Carbaryl			
		ACGIH TLV			
		TWA: 5 mg/m3			
		STEL: N/E			
CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2	OEL (QUE)	TWA		5 mg/m3
		CAD AB OEL	TWA		5 mg/m3
		CAD AB OEL	STEL		10 mg/m3
		CAD BC	TWA		5 mg/m3
		OEL			
		CAD BC	STEL		10 mg/m3
		OEL			
		CAD ON	TWA		5 mg/m3
		OEL			
1,2-Propylene glycol	57-55-6	CAD AB OEL	TWA		10 mg/m3
		Form of Exposure	Total dust.		
		CAD AB OEL	TWA		5 mg/m3
		Form of Exposure	Respirable dust.		
		CAD BC	TWA		10 mg/m3
		OEL			
		Form of Exposure	Total dust.		
		CAD BC	TWA		3 mg/m3
		OEL			
		Form of Exposure	Respirable dust.		
		OEL (QUE)	TWA		10 mg/m3
		Form of Exposure	Total dust.		
		CAD ON	TWA		10 mg/m3
		OEL			
		Form of Exposure	Aerosol.		
		CAD ON	TWA	50 ppm	155 mg/m3
		OEL			
		Form of Exposure	Total vapor and aerosol.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid

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Odor	Mild odor.
Odor Threshold	(PPM): NA
pH	at 4.0 - 5.0
Vapor Pressure	17 mmHg
Vapor Density (air = 1)	(AIR=1): 0.62
Specific Gravity	1.2(WATER=1)
Density	1.2 at 25 °C
Boiling Point	103 °C
Melting/Freezing Point	FREEZING POINT: -3 °C MELTING POINT: NAp
Solubility (in water)	MISCIBLE at 20 °C
Other Information	COLOUR: WHITE TO CREAM EVAP. RATE (BUTYL ACETATE=1): 0.83

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	STABLE
Conditions to Avoid	Avoid contamination with reactive substances. Avoid temperatures greater than 37.8°C.
Incompatibility	Avoid contact with acidic, basic or oxidizing agents.
Hazardous Products of Decomposition	Carbon dioxide. Carbon monoxide. Oxides of nitrogen. Methyl isocyanate.

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Hazardous Polymerization
(Conditions to avoid) WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (mg/kg): 642 (RAT)
Acute Dermal Toxicity LD50 (mg/kg): >2,000 (RBT)
Acute Inhalation Toxicity LC50 (mg/l): 3.21 (RAT/4Hr)

Eye irritant (rbt). Mildly irritating to skin (rbt).

Assessment Carcinogenicity

Carbaryl has been shown to cause tumors in laboratory animals in lifetime feeding studies.

ACGIH

None

NTP

None

IARC

CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE) 63-25-2 3

OSHA

None

Teratogenicity Carbaryl, when administered by various routes, at doses toxic to the maternal animals, has been shown to produce developmental toxicity in a number of species.
Carbaryl produces no teratogenic effect in the absence of maternal toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information Aquatic toxicity:
48 hr LC50 (rainbow trout): 2.50 mg/l (97.5% Carbaryl)

Environmental Fate No data at this time.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Disposal should be made in accordance with federal, provincial and local regulations.

RCRA Classification

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SECTION 14. TRANSPORT INFORMATION

CANADIAN TDG DESCRIPTION (ROAD & RAIL): NON REGULATED MATERIAL

Marine Pollutant

SECTION 15. REGULATORY INFORMATION

This product is registered under the Pest Control Act.

PCP # 19531.

WHMIS HAZARD CLASS:

D2B TOXIC MATERIALS

WHMIS TRADE SECRET:

Exempt

CANADIAN INVENTORY:

This product is currently exempt from CEPA.

HAZARD RATING SYSTEMS

HMIS: FLAMMABILITY 1 , REACTIVITY 1 , HEALTH 2

NFPA: FLAMMABILITY 1 , REACTIVITY 1 , HEALTH 2

US Federal

EPA Registration No.

TSCA list

CARBARYL, (1-NAPHTHYL N-
METHYLCARBAMATE) 63-25-2

1,2-Propylene glycol 57-55-6

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

None

US States Regulatory

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State right-to-know ingredients

None

Canadian Regulations

Canadian Registrat. No. 26873

Canadian Domestic Substance List

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1,2-Propylene glycol

57-55-6

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

None

European Inventory of Existing Commercial Substances (EINECS)

CARBARYL, (1-NAPHTHYL N-

63-25-2

METHYLCARBAMATE)

1,2-Propylene glycol

57-55-6

SECTION 16. OTHER INFORMATION

Prepared by: The HSE Department of Bayer CropScience Inc.
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