



# Material Safety Data Sheet

## SEVIN® 80WSP CARBARYL INSECTICIDE

MSDS Number: 196  
MSDS Version 1.3

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** SEVIN® 80WSP CARBARYL INSECTICIDE  
**Chemical Name** CARBARYL  
**Synonym**  
**MSDS Number** 196  
**Chemical Family**  
**Chemical Formulation** C12H11NO2  
**EPA Registration No.** 432-1226  
**Canadian Registrat. No.**

Aventis  
95 Chestnut Ridge Road  
Montvale, NJ 07645  
USA

☎ For Product Use Information: (800)331-2867 Monday through Friday  
8:00AM-4:30PM  
For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day  
For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

**Product Use Description** FIFRA regulated use only.

### 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	80.0000	
CALCIUM SILICATE	1344-95-2		
QUARTZ	14808-60-7	0.1100	
DIATOMACEOUS EARTH	61790-53-2		
Other ingredients (Trade secret)			

### SECTION 3. HAZARDS IDENTIFICATION

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

**Emergency Overview** WARNING!! MAY BE FATAL IF SWALLOWED.

**Physical State** solid

**Odor** phenolic

**Appearance** off-white to pale yellow powder

**Immediate Effects**

**Eye** Causes redness, irritation, tearing.

**Skin** Harmful if absorbed through skin. May produce symptoms similar to those from ingestion.

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<b>Ingestion</b>	May be fatal if swallowed. 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, diarrhea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression, convulsions.
<b>Inhalation</b>	Harmful if inhaled. May produce symptoms similar to those from ingestion.
<b>Chronic or Delayed Long-Term</b>	This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic).
<b>Medical Conditions Aggravated by Exposure</b>	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

### SECTION 4. FIRST AID MEASURES

<b>Eye</b>	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
<b>Skin</b>	In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.
<b>Ingestion</b>	If victim is unconscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.
<b>Inhalation</b>	Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.
<b>Note to Physician</b>	<p>All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.</p> <p>This product contains a methyl carbamate insecticide, which is a cholinesterase inhibitor.</p> <p>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.</p> <p>Specific treatment consists of parenteral atropine sulfate. Improve tissue oxygenation as much as possible before administering atropine to minimize the risk of ventricular fibrillation. 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. Severe cases should be given 2 to 4</p>

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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. Dosages for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours.

To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Call Aventis 1-800-334-7577 before sending samples. Analyses will be arranged by Aventis.

Persons regularly exposed in manufacturing and handling this product should have a preexposure and periodic red blood cell cholinesterase level checks.

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

<b>Flash Point</b>	Not Applicable
<b>Fire and Explosion Hazards</b>	Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.
<b>Suitable Extinguishing Media</b>	Recommended (small fires): carbon dioxide, dry chemical, Recommended (large fire): alcohol foam, polymer foam, water spray.
<b>Fire Fighting Instructions</b>	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>General and Disposal</b>	Evacuation Procedures and Safety: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.  Cleanup and Disposal of Spill: Shovel up into an appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.
<b>Land Spill or Leaks</b>	Containment of Spill: Follow procedure described below under Cleanup and Disposal of Spill.  Environmental and Regulatory Reporting: If spilled on the ground, the affected area should be scraped clean and placed in a appropriate container for disposal. Runoff from fire control or dilution water may cause pollution. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

### SECTION 7. HANDLING AND STORAGE

<b>Handling Procedures</b>	Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not ingest.
<b>Storing Procedures</b>	Store in original container. Store in an area that is cool, dry, away from foodstuffs or animal feed, out of reach of children and animals, Handle bag carefully when stored at temperatures below 50 °F (10 °C) to avoid breakage.
<b>Work/Hygienic Procedures</b>	<p>Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:</p> <ol style="list-style-type: none"><li>(1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.</li><li>(2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.</li><li>(3) Wash exposed skin promptly to remove accidental splashes of contact with this material.</li></ol> <p>In addition, based upon the specific hazards of this product:</p> <ol style="list-style-type: none"><li>(4) Do not take clothing/objects contaminated by this material off the work site.</li><li>(5) Shower and change into street clothes before leaving the work site.</li></ol>
<b>Min/Max Storage Temperatures</b>	0 °C / 38 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls</b>	Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.
<b>Eye/Face Protection</b>	<p>Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.</p> <p>Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.</p>
<b>Body Protection</b>	Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.
<b>Respiratory Protection</b>	When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

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Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against pesticides.

Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

### General Protection

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

### Exposure Limits

CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2	ACGIH	TWA	5 mg/m <sup>3</sup>
		NIOSH	REL	5 mg/m <sup>3</sup>
		OSHA Z1	PEL	5 mg/m <sup>3</sup>
		OSHA Z1A	TWA	5 mg/m <sup>3</sup>
CALCIUM SILICATE	1344-95-2	US CA OEL	TWA PEL	5 mg/m <sup>3</sup>
		ACGIH	TWA	10 mg/m <sup>3</sup>
		NIOSH	REL	5 mg/m <sup>3</sup>
		NIOSH	REL	10 mg/m <sup>3</sup>
		OSHA Z1	PEL	5 mg/m <sup>3</sup>
		Form of Exposure	Respirable fraction.	
		OSHA Z1	PEL	15 mg/m <sup>3</sup>
		Form of Exposure	Total dust.	
		OSHA Z1A	TWA	5 mg/m <sup>3</sup>
		Form of Exposure	Respirable fraction.	
OSHA Z1A	TWA	15 mg/m <sup>3</sup>		
Form of Exposure	Total dust.			
US CA OEL	TWA PEL	5 mg/m <sup>3</sup>		
Form of Exposure	Respirable fraction.			
US CA OEL	TWA PEL	10 mg/m <sup>3</sup>		
Form of Exposure	Total dust.			
QUARTZ	14808-60-7	ACGIH	TWA	0.05 mg/m <sup>3</sup>
		NIOSH	REL	0.05 mg/m <sup>3</sup>
		Form of Exposure	Respirable dust.	
		OSHA Z1A	TWA	0.1 mg/m <sup>3</sup>
		US CA OEL	TWA PEL	0.1 mg/m <sup>3</sup>
		Form of Exposure	Respirable dust.	
		US CA OEL	TWA PEL	0.3 mg/m <sup>3</sup>
		Form of Exposure	Total dust.	
DIATOMACEOUS EARTH	61790-53-2	ACGIH	TWA	10 mg/m <sup>3</sup>
		Form of Exposure	Fume.	

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ACGIH	TWA	3 mg/m3
OSHA Z1A	TWA	6 mg/m3
Form of Exposure	Respirable fraction.	
US CA OEL	TWA PEL	6 mg/m3

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	off-white to pale yellow powder
<b>Physical State</b>	solid
<b>Odor</b>	phenolic
<b>pH</b>	4 - 6.5 at 10 wt/wt%.
<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air = 1)</b>	Not available
<b>Specific Gravity</b>	Not Available
<b>Boiling Point</b>	Not available
<b>Melting/Freezing Point</b>	Not available
<b>Solubility (in water)</b>	dispersible
<b>Molecular Weight</b>	201.2 g/mol
<b>Decomposition Temperature</b>	40 °C
<b>Other Information</b>	Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

### SECTION 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	This material is stable under normal handling and storage conditions described in Section 7.
<b>Conditions to Avoid</b>	extreme heat open flame extreme humidity moisture
<b>Incompatibility</b>	strong acids bases
<b>Hazardous Products of Decomposition</b>	Decomposition Type: thermal oxides of nitrogen oxides of carbon methyl isocyanate (trace;no adverse effects expected)

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**Hazardous Polymerization (Conditions to avoid)** not applicable

### SECTION 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity** (Rat) LD50 - lethal dose 50% of test species, 281 mg/kg.

**Acute Dermal Toxicity** (Rabbit) LD50 - lethal dose 50% of test species, > 2000 mg/kg.

**Acute Inhalation Toxicity** Acute Respiratory Irritation:  
No test data found for product.

Acute Inhalation Toxicity:  
No test data found for product.

**Skin Irritation** (Rabbit) Minimally irritating.

**Eye Irritation** (Rabbit) Slightly irritating.

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

#### Assessment Carcinogenicity

##### ACGIH

CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2	Group A4
CALCIUM SILICATE	1344-95-2	Group A4
QUARTZ	14808-60-7	Group A2

##### NTP

QUARTZ	14808-60-7	
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##### IARC

CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2	
QUARTZ	14808-60-7	
DIATOMACEOUS EARTH	61790-53-2	

##### OSHA

None

### SECTION 12. ECOLOGICAL INFORMATION

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**Ecological Information** The following data is based on the technical grade active ingredient(s) (TGAI).

Ecotoxicological Information and Interpretation:

Mallard duck (*Anas platyrhynchos*)

LC50 - lethal concentration 50% of test species, > 5000 mg/kg/8 days

Dietary concentrations.

Bobwhite quail (*Colinus virginianus*).

LC50 - lethal concentration 50% of test species, > 5000 mg/kg/8 days

Dietary concentrations.

Rainbow trout (*Oncorhynchus mykiss*).

LC50 - lethal concentration 50% of test species, 1950 ug/l/96 hr

Bluegill sunfish (*Lepomis macrochirus*).

LC50 - lethal concentration 50% of test species, 6760 ug/l/96 hr

**Environmental Fate** For chemical fate data call the product information phone number listed in Section 1.

### SECTION 13. DISPOSAL CONSIDERATIONS

**General Disposal Guidance** Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

EPA Hazardous Waste - YES

### SECTION 14. TRANSPORT INFORMATION

Transportation Status:

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation  
Shipping Name: NOT REGULATED

### SECTION 15. REGULATORY INFORMATION

#### US Federal

<b>EPA Registration No.</b>	432-1226
<b>TSCA list</b>	
CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2
CALCIUM SILICATE	1344-95-2
QUARTZ	14808-60-7
DIATOMACEOUS EARTH	61790-53-2
<b>TSCA 12b export notification</b>	

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None

### SARA Title III - section 302 - notification and information

None

### SARA Title III - section 313 - toxic chemical release reporting

CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2	1.0%
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## US States Regulatory

### CA Prop65

This product contains a chemical known to the state of California to cause cancer.

QUARTZ	14808-60-7
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This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

None

### US State right-to-know ingredients

CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2	CA, CT, IL, MA, NJ, PA, RI
CALCIUM SILICATE	1344-95-2	IL, PA, RI
QUARTZ	14808-60-7	IL, MA, PA
DIATOMACEOUS EARTH	61790-53-2	IL

## Canadian Regulations

### Canadian Registrat. No.

### Canadian Domestic Substance List

CALCIUM SILICATE	1344-95-2
QUARTZ	14808-60-7

## Environmental

### CERCLA

CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE)	63-25-2	100 lbs
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### 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-METHYLCARBAMATE)	63-25-2
CALCIUM SILICATE	1344-95-2
QUARTZ	14808-60-7

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### SECTION 16. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
HMIS	2	1	1	
NFPA	3	1	1	

Reason for Revisions: New Format.

Print Date: 09/21/2001

Supersedes MSDS, which is older than: 09/21/2001

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