



# SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC) or  
1-866-374-1975 (Tessengerlo Kerley)

## 1. IDENTIFICATION

**PRODUCT NAME:** Sevin Brand 4F Carbaryl Insecticide  
**DESCRIPTION:** A liquid insecticide suspension  
**EPA Reg. No.:** 61842-38  
**Chemical Characterization:** Carbamate  
**COMPANY IDENTIFICATION:** Tessengerlo Kerley, Inc.  
 2910 N. 44<sup>th</sup> Street, Suite 100  
 Phoenix, AZ 85018-7272  
 (602) 889-8300

## 2. HAZARD IDENTIFICATION

### WARNING

Suspected of causing cancer (H351)  
 Suspected of damaging fertility or the unborn child (H361)  
 Harmful if swallowed or inhaled (H302+H332)  
 May be harmful in contact with skin (H313)  
 Very toxic to aquatic life (H400)



### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Carcinogenicity	2	None	--
Reproductive Toxicity	2		
Acute toxicity, oral	4	<b>Environmental Hazards</b>	<b>Category</b>
Acute toxicity, inhalation	4	Hazardous to the Aquatic Environment – Acute	1
Acute toxicity, dermal	5		-

### HAZARDS NOT REQUIRING CLASSIFICATION

None

### PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. Avoid breathing mist/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves and protective clothing. (P203+P261+P264+P270+P271+P280)

IF exposed or concerned, get medical advice. (P318)

**IF SWALLOWED:** Get medical help. Rinse mouth. (P301+P317+P330)

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)

**IF ON SKIN:** Get medical help. (P302+P317)

Store locked up. (P405)

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Carbaryl	1-Naphthalenol, 1-(N-methylcarbamate)	63-25-2	43.0%
Propylene glycol	1,2-Propanediol	57-55-6	5.0%

**NOTE:** Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call toll free 1-866-374-1975. See Label for Additional Precautions and Directions for Use.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** Carbaryl is an N-Methyl carbamate that inhibits cholinesterase. Drugs like 2-Pam (pyridine-2-aldoxime methiodide) are not recommended. To aid in the confirmation of diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analysis will be arranged by Tessengerlo Kerley, Inc. Consultation on therapy can be obtained at all hours by calling the appropriate emergency number 1-800-374-1975 (U.S.A.)

#### 5. FIREFIGHTING MEASURES

**Flash Point:** 93.3°C (>200°F)

**Fire and Explosion Hazards:** In the event of fire, carbon monoxide and nitrogen oxide can be released.

**Extinguishing Medium:** Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** No data available.

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity - 1

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document. Ensure adequate ventilation.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Spill Cleanup:** Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing.

**Storage:** Store unused SEVIN® Brand 4F Carbaryl Insecticide in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100° F. If container is damaged, before cleaning up, put on Personal Protective Equipment.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

#### Components with occupational exposure limits:

Chemical	CAS No.	ACGIH TWA/STEL	NIOSH REL	OSHA PEL/TWA
Carbaryl	63-25-2	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Ethanol	64-17-5	1,000 ppm	1,000 ppm	1,000 ppm

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Wear coveralls over short-sleeved shirt and long pants, chemical resistant footwear plus socks, chemical resistant gloves made of any waterproof material, and chemical-resistant headgear.

**General:** Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	white to beige liquid suspension	<b>Odor:</b>	mild
<b>Melting point:</b>	not available	<b>pH:</b>	4.0-5.0 (10% aqueous suspension)
<b>Boiling point:</b>	185°C (365°F)	<b>Viscosity:</b>	not available
<b>Flammability:</b>	not available	<b>Solubility (water):</b>	fully miscible
<b>Flammability limits (upper/lower):</b>	not available	<b>Partition coefficient:</b>	not available
<b>Flash point:</b>	93.3°C (>200°F)	<b>Vapor pressure:</b>	23.7 hPa (18 hPa mm Hg)
<b>Auto-ignition temperature:</b>	product is not self-igniting	<b>Bulk Density:</b>	9.2016 lbs/gal
<b>Decomposition temperature:</b>	175–190°C (347–374°F) exothermic decomposition	<b>Relative vapor density:</b>	not available
		<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Exposure to extreme heat, open flames, and ignition sources.

**CHEMICAL STABILITY:** Stable under normal temperature and recommended storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong acids or bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides, Nitrogen oxides, Methyl iso-cyanate (trace: no adverse effects expected).

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY (rat LD<sub>50</sub>):** 699 mg/kg

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** > 4,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** 3.84 mg/L (4 hours)

**EYE IRRITATION:** Mild irritant (rabbits)

**SKIN IRRITATION:** Mild irritant (rabbits)

**SKIN SENSITIZATION:** Not a sensitizer (guinea pigs)

### CARCINOGENICITY:

**EPA:** Group B2: "Likely to be carcinogenic to humans" (Carbaryl)

**ACGIH:** Group A4                      **NTP:** Listed

**IARC:** Group 3                        **OSHA:** Not Listed

Carcinogenicity classification is based on an increased incidence of hemangiosarcoma in male mice. The Q1 of carbaryl is 8.75 x 10<sup>-4</sup> (mg/kg/day)-1.

## 11. TOXICOLOGICAL INFORMATION (Continued)

**DEVELOPMENTAL TOXICITY:** Carbaryl was not a reproductive toxicant in a 2-generation study in rats. Carbaryl was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in both species but were considered secondary to maternal toxicity

**MUTAGENICITY / GENOTOXICITY:** Carbaryl poses only a slight mutagenic risk based on the overall weight of evidence in a battery of in-vitro and vivo tests.

**OTHER TOXICITY:** Reversible cholinesterase inhibition occurred in chronic toxicity studies in rats and dogs. The principle organs affected in rats from long term exposure to high doses of Carbaryl include the urinary bladder, thyroid, kidneys and liver. Carbaryl has been shown to cause tumor in lab animals in lifetime feeding studies.

## 12. ECOLOGICAL INFORMATION

This product is extremely toxic to aquatic invertebrates.

### **AQUATIC TOXICITY - Acute**

Rainbow trout (96-hour LC<sub>50</sub>): 1.4 mg/L

Daphnia magna (48-hour EC<sub>50</sub>): 0.00067 mg/L

### **AVIAN TOXICITY**

Bobwhite quail (Acute Oral LC<sub>50</sub>): > 5,000 mg/kg

Mallard Ducks (Oral LC<sub>50</sub>): >5,000 mg/kg

**Mobility:** Carbaryl is moderately mobile in soils, according to the FAO mobility classification system and has the potential to leach into ground water.

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. See container label for container handling and disposal instructions.

## 14. TRANSPORT INFORMATION

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### **US-DOT:**

#### **Containers ≤ 25 gal. (94.6 L):**

Not regulated

#### **Containers > 25 gal. (94.6 L):**

UN3082, Environmentally hazardous substances. liquid N.O.S. (carbaryl), 9, PG III, Marine Pollutant

**Hazardous Substance RQ:** 100 lbs (45.4 kg) (25 gallons of product)

**DOT Emergency Guide:** 171

### **IMDG:**

#### **Containers ≤ 1.3 gal. (5 L):**

Not regulated

#### **Containers > 1.3 gal. (5 L):**

UN3082, Environmentally hazardous substances. liquid N.O.S. (carbaryl), 9, PG III, Marine Pollutant

## 14. TRANSPORT INFORMATION (Continued)

### IATA:

#### Containers ≤ 6.6 gal. (25 L):

UN3082, Environmentally hazardous substances. liquid N.O.S. (carbaryl), 9, PG III, Marine Pollutant

#### Containers > 6.6 gal. (25 L):

Transportation not permitted as per 173.27(f)(3)

### EMS Number:

F-A, S-F

**Additional Transportation Information:** In accordance with 49 CFR 171.4(c), non-bulk packagings (max capacity of 119 gal. (450 L) or less for liquids or 882 lbs. (400 kg) or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations in 49 CFR and therefore treated as non-hazardous material. All bulk shipments or any shipment transported partially or entirely by vessel are treated as regulated Marine Pollutants and are shipped according to the requirements listed.

## 15. REGULATORY INFORMATION

### FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the GHS classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through the skin, or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

##### ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not apply when weather conditions favor drift from area treated. Drift and run-off may kill aquatic invertebrates in water adjacent to treated areas. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

**BEE CAUTION:** This product is highly toxic to honeybees and other bees exposed to direct treatment or residues on crops or weeds in bloom. This product may show residual toxicity to honeybees, especially in humid climates and under slow drying conditions.

Notifying beekeepers within 1 mile of treatment area at least 48 hours before product is applied will allow them to take additional steps to protect their bees. Limiting application to times when bees are least active, e.g., within 2 hours of sunrise or sunset, will minimize risk to bees.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

### ***Safety, health and environmental regulations/legislation specific for the substance or mixture***

#### **Section 355 (extremely hazardous substances):**

Not listed.

#### **SARA Title III – Section 302 Extremely Hazardous Substances**

Not listed

#### **SARA Title III – Section 311/312 Hazard Categories**

Immediate (Acute), Delayed (Chronic)

#### **Section 313 (Toxic Release Reporting-Form R):**


<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration</u>
Carbaryl	63-25-2	43.0%

#### **CERCLA/SUPERFUND:**

RQ (Reportable Quantity): Carbaryl (CAS No. 63-25-2) 100 lbs. (45.4 kg) (25 gallons of product)

## 15. REGULATORY INFORMATION (Continued)

### **California Proposition 65**

 **WARNING:** This product can expose you to Carbaryl, which is known to the State of California to cause cancer and developmental toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **RCRA Classification**

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

### **CANADA**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

NovaSource® is a registered trademark of Tessenderlo Kerley, Inc. All rights reserved.

**SDS Version: 2.1**

**Effective Date: March 1, 2024**