



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

1/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

**Product identifier**

Trade name	SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE CARBARYL INSECTICIDE
Product code (UVP)	05929997
SDS Number	102000004788
EPA Registration No.	432-982

**Relevant identified uses of the substance or mixture and uses advised against**

Use	Insecticide
Restrictions on use	See product label for restrictions.

**Information on manufacturer**

Bayer CropScience  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
USA

**Emergency telephone no.**

All Emergencies, 24hr/ 7 days 1-800-334-7577

**Product Information  
Telephone No.**

**SDS Information or Request** [SDSINFO.BCS-NA@bayer.com](mailto:SDSINFO.BCS-NA@bayer.com)

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Acute toxicity (Oral): Category 3  
Eye irritation : Category 2B  
Acute toxicity (Inhalation): Category 4



**Signal word:** Danger

**Hazard statements**

Toxic if swallowed.  
Causes eye irritation.  
Harmful if inhaled.

**Precautionary statements**

Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

2/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

Avoid breathing dust.  
Use only outdoors or in a well-ventilated area.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
Specific treatment is urgent (see supplemental first aid instructions on this label).  
Rinse mouth.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/ physician if you feel unwell.  
Store locked up.  
Dispose of contents/container in accordance with local regulation.

**Other hazards**

This product contains an cholinesterase inhibitor.  
Dust may form explosive mixture in air.

---

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Average % by Weight
Carbaryl	63-25-2	97.50
Synthetic amorphous silica	112926-00-8	2.00

---

**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move 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 physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

3/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes., Bradycardia, Low blood pressure, Salivation, Bronchial hypersecretion, Vomiting, Diarrhoea, Sweating, Muscular fasciculation, Spasm, Breathing difficulties, Respiratory paralysis, Somnolence, Coma, Respiratory failure, Hypothermia, Convulsions, Nausea

**Indication of any immediate medical attention and special treatment needed**

**Risks** This product is a cholinesterase inhibitor carbamate.

**Treatment** The product inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves.

The following antidote is generally accepted: atropine.

Do not use oximes such as 2-PAM unless organophosphate intoxication is suspected. Contraindications: derivatives of morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Water spray, Foam

**Unsuitable** None known.

**Special hazards arising from the substance or mixture** Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

**Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses. Contain the spread of the fire-fighting media.

**Flash point** not applicable

**Autoignition temperature** no data available

**Lower explosion limit** not applicable



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

4/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

---

<b>Upper explosion limit</b>	not applicable
<b>Explosivity</b>	no data available

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

---

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Advice on protection against fire and explosion** Dust may form explosive mixture in air.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

---



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

5/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Carbaryl	63-25-2	0.5 mg/m3 (TWA)		OES BCS*
Carbaryl (Inhalable fraction and vapor.)	63-25-2	0.5 mg/m3 (TWA)	02 2012	ACGIH
Carbaryl	63-25-2	5 mg/m3 (REL)	2010	NIOSH
Carbaryl	63-25-2	5 mg/m3 (PEL)	02 2006	OSHA Z1
Carbaryl	63-25-2	5 mg/m3 (TWA)	1989	OSHA Z1A
Carbaryl	63-25-2	5 mg/m3 (TWA)	06 2008	TN OEL
Carbaryl	63-25-2	0.5 ug/m3 (AN ESL)	07 2011	TX ESL
Carbaryl	63-25-2	5 ug/m3 (ST ESL)	07 2011	TX ESL
Carbaryl	63-25-2	5 mg/m3 (TWA PEL)	08 2010	US CA OEL
Synthetic amorphous silica	112926-00-8	6 mg/m3 (TWA)	1989	OSHA Z1A
Synthetic amorphous silica	112926-00-8	6 mg/m3 (TWA)	06 2008	TN OEL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**Exposure controls**

**Personal protective equipment**

**Respiratory protection**

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection**

Chemical resistant nitrile rubber gloves

**Eye protection**

Safety glasses with side-shields

**Skin and body protection**

Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.  
Eye wash facility and safety shower should be available.



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

6/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white to light brown
<b>Physical State</b>	powder
<b>Odor</b>	none
<b>Odour Threshold</b>	no data available
<b>pH</b>	5.3 - 6.2 (10 %) at 25 °C aqueous suspension
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Bulk density</b>	18.0 - 27.0 lb/ft <sup>3</sup> Tapped
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	not applicable
<b>Melting / Freezing Point</b>	138 °C / 280 °F
<b>Water solubility</b>	insoluble
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	not applicable
<b>Flash point</b>	not applicable
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

7/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

---

**Explosivity** no data available

---

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

**Thermal decomposition** no data available

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**Conditions to avoid** Heat, flames and sparks.

**Incompatible materials** Strong acids, Bases

**Hazardous decomposition products** Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Methyl isocyanate  
(trace; no adverse effects expected)

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Ingestion, Inhalation, Eye contact, Skin contact

**Immediate Effects**

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

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

**Ingestion** Harmful if swallowed. This product causes reversible cholinesterase inhibition without long term effects. Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced 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, and convulsions.

**Inhalation** Harmful if inhaled. May produce symptoms similar to those from ingestion.

**Information on toxicological effects**



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

8/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

<b>Acute oral toxicity</b>	LD50 (male rat) 283 mg/kg  LD50 (female rat) 246 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (male/female combined rat) 2.5 mg/l Exposure time: 4 h Determined in the form of dust.  LC50 (male/female combined rat) 10.0 mg/l Exposure time: 1 h Determined in the form of dust. Extrapolated from the 4 hr LC50.
<b>Acute dermal toxicity</b>	LD50 (rabbit) > 2,000 mg/kg
<b>Skin irritation</b>	No skin irritation (rabbit)
<b>Eye irritation</b>	Minimally irritating. (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**

Carbaryl caused reversible cholinesterase inhibition without long term effects in animal studies.

**Assessment Mutagenicity**

Carbaryl was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**

Carbaryl caused at high dose levels an increased incidence of tumours in the following organ(s): liver, thyroid, Kidney, cardio-vascular system. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

**ACGIH**

Carbaryl	63-25-2	Group A4
----------	---------	----------

**NTP**

None.

**IARC**

Carbaryl	63-25-2	Overall evaluation: 3
Synthetic amorphous silica	112926-00-8	Overall evaluation: 3

**OSHA**

None.

**Assessment toxicity to reproduction**

Carbaryl did not cause reproductive toxicity in a two-generation study in rats.





**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

9/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

**Assessment developmental toxicity**

Carbaryl did not cause developmental toxicity in rats and rabbits.

---

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity to fish</b>	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 3.3 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient carbaryl.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Water flea ( <i>Daphnia magna</i> )) 0.0164 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient carbaryl.
<b>Toxicity to aquatic plants</b>	EC50 ( <i>Pseudokirchneriella subcapitata</i> ) = 1.75 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient carbaryl.
<b>Biodegradability</b>	Carbaryl: rapidly biodegradable
<b>Koc</b>	Carbaryl: Koc:624
<b>Bioaccumulation</b>	Carbaryl: Bioconcentration factor (BCF) 44 Does not bioaccumulate.
<b>Mobility in soil</b>	Carbaryl: Slightly mobile in soils
<b>Environmental precautions</b>	Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. For guidance, contact your State Water Board or Regional Office of the EPA.

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product** Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

**Contaminated packaging** Do not re-use empty containers.  
Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

10/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

If burned, stay out of smoke.  
Consult state and local regulations regarding the proper disposal of container.

**RCRA Information**

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

---

**SECTION 14: TRANSPORT INFORMATION**

**49CFR**

UN number	<b>2757</b>
Class	6.1
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	CARBAMATE PESTICIDES, SOLID, TOXIC (CARBARYL)
RQ	Reportable Quantity is reached with 102 lb of product.

**IMDG**

UN number	<b>2757</b>
Class	6.1
Packaging group	III
Marine pollutant	YES
Proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC (CARBARYL)

**IATA**

UN number	<b>2757</b>
Class	6.1
Packaging group	III
Environm. Hazardous Mark	NO
Proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC (CARBARYL)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., POISON, OTHER THAN GASES THAT ARE POISONOUS BY INHALATION

---

**SECTION 15: REGULATORY INFORMATION**

EPA Registration No. 432-982



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE  
CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

11/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

**US Federal Regulations**

**TSCA list**

Carbaryl 63-25-2

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Carbaryl 63-25-2 1.0%

**US States Regulatory Reporting**

**CA Prop65**

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

Carbaryl 63-25-2

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Carbaryl 63-25-2 Developmental toxin.

Carbaryl 63-25-2 Male reproductive toxin.

**US State Right-To-Know Ingredients**

Carbaryl 63-25-2 CA, CT, MN, NJ

Synthetic amorphous silica 112926-00-8 MN

**Canadian Regulations**

**Canadian Domestic Substance List**

Synthetic amorphous silica 112926-00-8

**Environmental**

**CERCLA**

Carbaryl 63-25-2 100 lbs

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

Carbaryl 63-25-2

**EPA/FIFRA Information:**

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 classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:



**SEVIN® BRAND 97.5% MANUFACTURING CONCENTRATE**  
**CARBARYL INSECTICIDE**

Version 3 / USA  
102000004788

12/12  
Revision Date: 09/14/2013  
Print Date: 08/09/2018

---

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed.  
Do not take internally.  
Avoid breathing dust.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

---

**SECTION 16: OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 2      Flammability - 1      Instability - 1      Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 09/14/2013

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.