



Creating Value Through Innovative Solutions

Safety Data Sheet


Sevin Brand XLR Plus Carbaryl Insecticide

MSDS Number: 5972 Revision: 8/17/2012

Section	1:	Identification
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| 1a. | Product Name | Sevin Brand XLR Plus Carbaryl Insecticide | |
| 1b. | Other Identification: | | |
| | Chemical Family | Carbamate | |
| | Formula | NA Blend | |
| | EPA Registration #: | 61842-33 | |
| 1c. | Recommended Use of Chemical: | Insecticide | |
| 1d. | Manufacturer | Tessenderlo Kerley Inc. | |
| | Information | 2255 N. 44 th Street, Suite 300
Phoenix, Arizona 85008-3279
(602) 889-8300 | |
| 1e. | Emergency Contact | Tessenderlo Kerley, Inc.
CHEMTREC | (866) 374-1975
(800) 424-9300 (Domestic)
(703) 527-3887 (International) |

Section	2:	Hazard(s) Identification
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|------------|------------------------------------|---|--------------------------------------|
| 2a. | Hazard Classification: | Health
Physical | Hazardous to the Environment
None |
| 2b. | Signal Word | None | |
| | Hazard Statement(s): | None | |
| | Symbol(s): |  | |
| | Precautionary Statement(s): | Avoid contact with eyes.
May be fatal if swallowed
Avoid breathing of vapors.
Avoid contact with the skin.
Keep away from any sources of heat or flames.
Store totes or small containers out of direct sunlight.
Wear protective apron, gloves and eye and face protection.
Do not allow release to aquatic waterways. | |

2c. **Unclassified Hazard(S):** None

2d. **Unknown Toxicity Ingredient:** None

Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Chemical Ingredients (See Section 8 for exposure guidelines)

<u>Chemical</u>	<u>Synonym/Common Name</u>	<u>CAS #</u>	<u>EC #</u>	<u>% by Wt.</u>
1-naphthyl methylcarbamate	Carbaryl	63-25-2	200-555-0	44.1
1,2-Propanediol		57-55-6		

Section 4: FIRST AID MEASURES

4.1 Symptoms/Effects

Acute: May be harmful if swallowed. Harmful if inhaled or absorbed through the skin. Harmful if it gets in eyes.

Chronic: No known chronic effects.

4.2 Eyes: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Obtain medical attention immediately.

4.3 Skin: Immediately wash with large quantities of water and soap. Remove contaminated clothing immediately under a safety shower. Obtain immediate medical attention.

4.4 Ingestion: If victim is conscious, rinse mouth with water then give small sips of water. Obtain immediate medical attention or contact the poison control center. Do not induce vomiting unless directed by a physician.

4.5 Inhalation: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

This product contains a cholinesterase inhibitor carbamate. The product inhibits cholinesterase resulting in the stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. If symptoms of carbamate poisoning are present, the administration of atropine sulfate is indicated.

Section 5: FIRE FIGHTING MEASURES
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5.1 Flammable Properties: Flash point is: >100°C (212°F) (See Section 9, for additional flammable properties)

5.2 Extinguishing Media: .

5.2.1 Suitable Extinguishing Media: Foam, dry powder or carbon dioxide.

5.2.2 Unsuitable Extinguishing Media: Not applicable.

5.3 Protection of Firefighters:

5.3.1: Specific hazards arising from the chemical: In the event of fire, carbon monoxide and nitrogen oxide can be released.

Physical hazards: Breathing of vapors.

Chemical hazards: May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Harmful if it gets into eyes,

5.3.2: Protective equipment and precautions for firefighters: Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear. Do not allow extinguishing media into waterways or storm water systems.

Section	6:	ACCIDENTAL RELEASE MEASURES
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6.1 Personal Precautions

Use personal protective equipment specified in Section 8. Isolate the release area and deny entry to unnecessary, unprotected and untrained personnel.

6.2 Environmental Precautions

This product is a marine pollutant, and should be kept out of "waters of the US" because of potential aquatic toxicity (See Section 12). Product is extremely toxic to aquatic and estuarine invertebrates. It is also toxic to bees.

6.3 Methods of Containment

Small releases: Confine small releases to a limited area.

Large releases: Close off release if safe to do so. Dike spill area with earth, sand or other inert absorbent to prevent runoff into surface waterways (potential aquatic toxicity) or storm drains.

6.4 Method for Cleanup

Small release: For small areas shovel up material and place in drums for disposal as a chemical waste.

Large release: Recover as much of the spilled product using pumps. If spilled on the ground, the affected area should be scraped clean and placed in suitable container for disposal..Contact the National Response Center (800-424-8802) and State or local agencies if RQ exceeded.

Section	7:	HANDLING and STORAGE
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7.1 Handling: Wear suitable PPE (See Section 8.3) for eye/skin and breathing protection. Eating and drinking should be avoided in handling areas. Avoid contact with the skin and eyes. Do not ingest.

7.2 Storage: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Store tote and smaller containers out of direct sunlight at moderate temperatures. Store between 0 and 38°C (32 and 100°F). (See Section 10.3, for materials of construction)

Section	8: EXPOSURE CONTROLS/ PERSONAL PROTECTION
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8.1 Exposure Guidelines:	OSHA		ACGIH	
	<u>TWA</u>	<u>STEL</u>	<u>TLV</u>	<u>STEL</u>
Carbaryl	None	None	5 mg/m ³	None

8.2 Engineering Controls: Use adequate exhaust ventilation to prevent inhalation of product vapors.

8.3. Personnel Protective Equipment (PPE)

8.3.1 Eye/Face Protection: Chemical goggles. Emergency eye wash should be readily available.

8.3.2 Skin Protection: Wear long sleeved shirt and long pants or Tyvek suit. Wear chemical resistant gloves such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

8.3.3 Respiratory Protection: Wear NIOSH/MSHA approved cartridge mask with organic filter.

General Hygiene Considerations: Common good industrial hygiene practices should be followed, such as, washing thoroughly after handling and before eating or drinking.

Section	9: PHYSICAL and CHEMICAL PROPERTIES
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9.1 Appearance/State/odor:	White to beige liquid suspension with weak phenolic odor
9.2 Odor Threshold:	Not determined
9.3 pH :	NA
9.4 Freezing Point:	-4°C (25°F)
9.5 Boiling Point:	Not determined
9.6 Flash Point:	>100°C (212°F)
9.7 Evaporation Rate:	Not applicable
9.8 Flammability:	Not applicable
9.9 Flammability Limits:	Not applicable
9.10 Vapor Pressure:	Not determined
9.11 Vapor Density:	Not determined
9.12 Specific gravity:	1.09 g/cm ³ (9.1 lb/gal) @20°C
9.13 Solubility:	miscible
9.14 Partition Coefficient:	Data not available
9.15 Auto-ignition Temperature:	Not applicable
9.16 Decomposition Temperature:	175 – 190°C (347 – 374°F) Exothermic decomposition
9.17 Viscosity:	500 – 700 mPa.s at 25°C

Section	10: STABILITY and REACTIVITY
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10.1 Reactivity: None

10.2 Chemical Stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: None known

10.4 Conditions to Avoid: Exposure to extreme heat or open flames.

10.5 Incompatible : Strong acids or bases.

10.6 Hazardous Decomposition Products: Thermal decomposition – nitrogen oxides, carbon dioxides.

Section	11: TOXICOLOGICAL INFORMATION
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- 11.1 Oral:** male rat, LD₅₀: 867 mg/kg
Female rat, LD₅₀: 575 mg/kg
Male/female combined, LD₅₀: 699 mg/kg
- 11.2 Dermal:** male/female rat, LD₅₀: > 4,000 mg/kg
- 11.3 Inhalation:** male/female rat, LC₅₀: > 3.8 mg/l (4 hrs)
- 11.4 Skin Irritation`** rabbit: Slight irritation
- 11.5 Eye Irritation** rabbit: slight irritation
- 11.6 Sensitization** guinea pig: Non sensitizing
- 11.7 Chronic/Carcinogenicity:** Reversible cholinesterase inhibition occurred in chronic toxicity studies in rats and dogs. The principal organs affected in rats from long term exposure to high-doses of Carbaryl included the urinary bladder, thyroid, kidneys and liver.
- ACGIH:** Carbaryl Group A4
NTP: None
IARC: Carbaryl Overall evaluation: 3
- 11.8 Teratology:** Data not available
- 11.9 Reproduction:** Carbaryl not a reproductive developmental toxicant in a two-generation rat study.
- 11.10 Mutagenicity:** A battery of vitro and vivo mutagenicity studies have been conducted on Carbaryl. Collectively, these studies indicate that Carbaryl poses only a slight mutagenic Risk
- 11.11 Neurotoxicity:** Carbaryl cause transient neurobehavioral effects (e.g. tremors) related to Cholinergic toxicity without correlating neuropathological changes in acute and Sub chronic neurotoxicity studies in rats. Carbaryl did not cause developmental Neurotoxic effects in offspring in a one-generation developmental neurotoxicity Study in rats.

Section	12: ECOLOGICAL INFORMATION
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Do not apply when weather conditions favor runoff or drift. Do not contaminate surface or ground water by cleaning equipment or disposal of waste, including equipment was water. Apply this product as specified on the label. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not allow to get into surface water, drains and ground water.

Do not apply this product or allow drift to blooming crops or weeds if bees are visiting the treatment area.

Toxicity studies below relate to Carbaryl.

12.1 Ecotoxicity

Fish: Rainbow trout (*Oncorhynchus mykiss*), LC₅₀: 3.3 mg/l (96 hrs)

Aquatic Plants *Navicula pelliculosa* (diatom algae), EC₅₀: 0.61 mg/l (120 hrs)

Sevin Brand XLR Plus Carbaryl Insecticide

Aquatic Invertebrates	Water flea (daphnia magna), EC ₅₀ : 0.0164 mg/l (48 hrs)
Other organisms	Mallard duck, LC ₅₀ : > 5,000 mg/kg (8 days – dietary concentrations) Bobwhite quail, LC ₅₀ : > 5,000 mg/kg (8 days)
12.2 Persistence & Degradability	No data available
12.3 Bioaccumulative potential	No data available
2.4 Mobility in Soil	No data available
12.5 Other Adverse Effects	Extremely toxic to aquatic and estuarine invertebrates. Do not apply to water, to areas where surface water is present or to intertidal areas below the mean high water mark outside of a treated rice field. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Highly toxic to bees. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Section	13: DISPOSAL CONSIDERATIONS
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Carbaryl is a U279 listed waste

Empty container residue into application equipment. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by federal/state/local authorities, by burning. If burned, stay out of smoke.

Section	14: TRANSPORT INFORMATION
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Carbaryl is a listed Marine Pollutant and a Hazardous Substance with an RQ of 100 lbs. Non-bulk shipments of less than 125 lbs of this product and not shipped partially or completely over water are not regulated by U.S.DOT for transportation. Shipments of this product greater than 125 lbs or shipped partly or completely over water are regulated as listed below.

14.1 Basic Shipping Description

14.1.1 Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.
14.1.2 Hazard Class(s):	Class 9
14.1.3 Identification Number:	UN 3082
14.1.4 Packing Group:	III
14.1.5 Hazardous Substance:	Yes (if single container greater than 125 lbs)
14.1.6 Marine Pollutant:	Yes

14.2 Additional Information

14.2.1 Other DOT Requirements

14.2.1.1 Reportable Quantity:	100 lbs
14.2.1.2 Placard(s):	Class 9
14.2.1.3 Label(s):	Class 9

Hazardous to the Environment

14.2.2 USCG Classification: Chris Code - CBY

14.2.3 International Transportation

14.2.3.1 IMO: Environmentally hazardous substance, liquid, n.o.s.
14.2.3.2 IATA: Environmentally hazardous substance, liquid, n.o.s.
14.2.3.3 TDG (Canada): Environmentally hazardous substance, liquid, n.o.s.
14.2.3.4 ADR (Europe): Environmentally hazardous substance, liquid, n.o.s.
14.2.3.5 ADG (Australia): Not determined

14.2.4 Emergency Response Guide: 171

14.2.5 ERAP - Canada: Not applicable

14.2.6 Special Precautions: Not applicable

Section	15: REGULATORY INFORMATION
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15.1 US Federal Regulations

15.1.1 OSHA: This product meets the criteria of the Federal OSHA Hazard communication Standard (29 CFR 1910.1200).

15.1.2 TSCA: Ingredients are contained in USEPA TSCA Inventory or governed by U.S.EPA under FIFRA

15.1.3 CERLA: Reportable Quantity – 100 lbs

15.1.4 SARA Title III

15.1.4.1 Extremely Hazardous Substance (EHS): Not Applicable

15.1.4.2 Section 312 (Tier II) ratings:

Immediate (acute)	Yes
Fire	No
Sudden release	No
Reactivity	No
Delayed (chronic)	No

15.1.4.3 Section 313 (FORM R): Yes (Carbaryl – 44.1%)

15.1.5 RCRA (Resource Conservation & Recovery Act) Status: Yes, U279 listed waste

15.1.6 CAA Hazardous Air Pollutant (HAP): Not Applicable

15.2 international Regulations

15.2.1 Canada

15.2.1.1 WHIMIS: Not determined
15.2.1.2 DSL/NDSL: Listed in NDSL, Record 2440 (Carbaryl)

NFPA: Health - 1 Flammability - 2 Reactivity - 1

Section	16: OTHER INFORMATION
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REVISIONS:

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