SEVIN® SL CARBARYL INSECTICIDE

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION
Product Name: SEVIN® SL CARBARYL INSECTICIDE
Synonym: Bayer
Chemical Name: Carbaryl
MSDS Number: 200
Chemical Family: Insecticide
Chemical Formula: C12H11NO2

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS
Component Name | CAS No. | Concentration % by Weight
--- | --- | ---
CARBARYL | (1 NAPHTHYL N-METHYLCARBAMATE) | 63.25-2
1,2-Propylene glycol | 57-55-6 | 43.0000
ETHANOL | | 64-17-5
Other ingredients (Trade secret) | | |

SECTION 3. HAZARDS IDENTIFICATION
NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview: Caution. Keep out of the reach of children. Hazard to humans and domestic animals. Harmful if swallowed, inhaled or absorbed through the skin. Harmful if in eyes.

Physical State: liquid
Odor: mild
Appearance: off-white to pale yellow
Immediate Effects
Eye: Causes redness, irritation, tearing. Avoid contact with eyes.
Skin: Avoid contact with skin or clothing. Harmful if absorbed through skin. May produce symptoms similar to those from ingestion.

Ingestion: Harmful if ingested. This product contains reversible cholinesterase inhibitor. This product causes reversible cholinesterase inhibition. This product may cause 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, blunted vision, profuse sweating, temporary paralysis, respiratory depression, and convulsions.

Inhalation: Harmful if inhaled. Avoid breathing vapors and spray mist. May produce symptoms similar to those from ingestion.

Chronic or Delayed Long-Term: This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Medical Conditions Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

Signs and Symptoms
Overexposure may cause salivation, watery eyes, pinpoint pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness, headache. In severe cases confusion, unconsciousness and respiratory failure may occur. Signs and symptoms may occur rapidly following overexposure to this product.

SECTION 4. FIRST AID MEASURES
Eye: Flush eyes with plenty of water. Get medical attention immediately if irritation persists.
Skin: Wash skin thoroughly with soap and water.
Ingestion: Never give anything by mouth to an unconscious or convulsing person. If conscious and not convulsing, drink 1 to 2 glasses of water and induce vomiting by touching the back of the throat with finger. Get medical attention immediately.

Inhalation: Remove victim from contaminated atmosphere. Call a physician.

Note to Physician
Contact a physician immediately in all cases of suspected poisoning. Transport to a physician or hospital immediately and show a copy of this label to the physician. If poisoning is suspected in animals, contact a veterinarian.

All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to other materials other than this pesticide may have contributed to the severity of symptoms.

This product contains a methyl carbamicate 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 spontaneous 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. 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 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 1-800-334-7577 before sending samples. Analysis will be arranged by Bayer. Persons regularly exposed in manufacturing and handling this product should have a preexposure and periodic blood cholinesterase level checked. Nar- cotics or alcohol should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended.

SECTION 5. FIRE FIGHTING MEASURES
Flash Point: > 93˚C / > 199˚F
Flammability Class: WILL BURN
Lower Flammable Limit: 2.6 (V)
Upper Flammable Limit: 19 (V)

Fire and Explosion Hazards: Product will burn under fire conditions.

Suitable Extinguishing Media
Small Fires: carbon dioxide (CO2), dry chemical
Large Fires: alcohol foam, polymer foam, water spray

Fire Fighting Instructions: 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. Fire areas to prevent runoff and contamination of sources. Dispose of fire control water later. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and treated for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

SECTION 6. ACCIDENTAL RELEASE MEASURES
General and Disposal
Evacuation Procedures and Safety: Wear appropriate gear for the situation. See Personal Protection Information in Section 8.

Cleanup and Disposal of Spill: Soak up with inert absorbent material. Shovel up and place in an appropriate closed container (see Section 7: Handling and Storage). Decontaminate tools and equipment following cleanup.

Land Spill or Leaks
Contain spill: Stop leak if it can be done without risk. Dike spill using absorbent or impervious materials such as earth, sand or clay. Follow procedure under Cleanup and Disposal of Spill. Collect and contain contaminated absorbent and dikes for disposal. Environmental and Regulatory Reporting: Runoff from fire control or dilution water may cause pollution. Prevent material from entering public sewer system. Disposal to any waterway. Spills may be reportable to the National Response Center (1-800-424-8802) and to state and/or local agencies. Spills on the ground, the affected area should be remediated to a depth of one to two inches and placed in an appropriate container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling Procedures: Avoid direct or prolonged contact with skin and eyes. Do not ingest. Do not breathe vapors and mists.
Storing Procedures: Store in original container. Keep in a dry, cool place. Store in an area that is away from foodstuffs or animal feed, out of reach of children and animals.

Work-Hygienic Procedures
Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
Remove clothing immediately if pesticide gets inside. Wash thoroughly and change if contaminated.
Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse. Follow manufacturer’s instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Do not apply this product in a way that will contact waterways. Spills may be reportable to the National Response Center (1-800-424-8802) and to state and/or local agencies. Spills on the ground, the affected area should be remediated to a depth of one to two inches and placed in an appropriate container for disposal.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
When handlers use closed systems, enclosed cab, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

When engineering controls are indicated by use conditions of a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposure: general area dilution/exhaust ventilation Eyewash/Face Protection
Eye and face protection requirements will vary dependently upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye should be protected if not 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.

Body Protection
Applicants and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, chemical resistant headgear for overhead exposure.

Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard to use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Respiratory Protection
When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the ap-
Decomposition Temperature:
140˚C

Strong acids
Incompatibility
Open flame
Mal handling and storage conditions described in Section 7.
This material is stable under normal conditions.

Physical and Chemical Properties

**Solubility (in water):**
- Water: Soluble

**Vapor Pressure:**
- 98˚C at 760 mmHg
- 98˚C at 1 atm

**pH:**
- 1.0 to 2.0

**Specific Gravity:**
- 1.0 to 2.0

**Decomposition Temperature:**
- 140˚C

**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.

**Toxicological Information:**

**Acute Oral Toxicity:**
- Rat: LD50: 590 mg/kg
- Rabbit: LD50: > 2,000 mg/kg

**Acute Inhalation Toxicity:**
- Rat: LC50: > 1.8 mg/l 4 h

**Chronic Toxicity:**
- Carbazyl 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
- NTP
- IARC
- ACGIH
- NTP

**Ecological Information:**

**Acute and Prolonged Toxicity to Fish:**
- The following data is based on the technical grade active ingredient(s) (TGAI).

**Acute Dermal Toxicity:**
- Rat: LD50: 590 mg/kg

**Toxicity Other Non Mammal Terr. Species:**
- The following data is based on the technical grade active ingredient(s) (TGAI).

**Environmental Precautions:**
- This product is toxic to aquatic and estuarine invertebrates. For terrestrial uses, do not apply directly to water or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of equipment wastewaters. Do not contaminate water when disposing of equipment wastewaters. BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS.

**Hazardous Polymerization:**
- Decomposition Type: thermal
- Oxides of nitrogen
- Carbon oxides
- Methyl isocyanate (trace; no adverse effects expected)
- 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.

**Pesticide Disposal:**
- Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Emergency Response:**
- EPA Hazardous Waste - Yes
- Container Disposal: Triple rinse (or equivalent).

**Transportation Information:**
- For Transportation Regulatory Information call the Product Information phone number in Section 1.

**Regulatory Information:**
- US Federal
- EPA Registration No.: 432-1227
- TSCA list
- CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE) 63-25-2, 1.0%
- 1,2-Propylene glycol 57-55-6
- ETHANOL 64-17-5
- TSCA 12b export notification

**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%
- US States Regulatory
- CA Prop65

**Clean Water Section 307 Priority Pollutants:**
- CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE) 63-25-2: 3
- CANADIAN REGULATIONS
- CANADIAN REGISTRANT NO.
- CANADIAN DOMESTIC SUBSTANCE LIST
- 1,2-Propylene glycol 57-55-6
- ETHANOL 64-17-5
- ENVIRONMENTAL
- CERCLA
- CARBARYL, (1-NAPHTHYL N-METHYLCARBAMATE) 63-25-2, 1.0%
- 1,2-Propylene glycol 57-55-6
- ETHANOL 64-17-5

**Miscellaneous Information:**
- None

**Company Name Change:**
- None

**Print Date:**
- 12/09/2002

**Reason for Revisions:**
- Company name change.

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