

Techpac

SEVIN(R) BRAND CARBARYL INSECTICIDE

MANUFACTURER: TECHPAC, LLC.
 P.O. BOX 24830
 LEXINGTON, KY 40504
 Garden Tech Sevin Concentrate Bug Killer
 This product is used by Homeowners and Professionals
 MSDS NO.: GT-15
 AUG. 1998

 SECTION 1 - PRODUCT IDENTIFICATION

EMERGENCY PHONE NUMBER: 800-969-7200
 POISON CONTROL CENTER - ATLANTA: 1-800-282-5146
 EPA REG. NUMBER: 264-334-71004
 CHEMICAL NAME: Carbaryl; [1 Naphthyl N-Methylcarbamate]
 TRADE NAME: Sevin(R) brand Carbaryl Insecticide

 SECTION 2 - COMPOSITION

Component	Percentage	ACGIH Exposure Limit
Carbaryl [63-25-2]	22.5%	TLV - 5 mg/m3
OSHA Exposure Limit: PEL - 5 mg/m3		
Propylene glycol [57-55-6]		50 ppm (AIHA-TWA)
OSHA Exposure Limit: None Established		
Ethanol [64-17-5]		TLV - 1000 ppm
OSHA Exposure Limit: PEL - 1000 ppm		

 SECTION 3 - HEALTH HAZARD DATA

EMERGENCY OVERVIEW: Off-white to pale yellow liquid with a phenolic odor. Harmful if swallowed, inhaled or absorbed through skin. Extremely toxic to aquatic and estuarine invertebrates. Highly toxic to bees.

ROUTE(S) OF ENTRY:

- INGESTION: Harmful if swallowed.
- INHALATION: Harmful if inhaled. May produce symptoms similar to those from ingestion.
- SKIN: Harmful if absorbed through skin. May produce symptoms similar to those ingestion.
- EYES: Causes redness, irritation, tearing.

SIGNS AND SYMPTOMS: This product causes reversible cholinesterase inhibition. Signs and symptoms of overexposure may lead to rapid onset of nausea, vomiting, abdominal pain, diarrhea, pinpoint pupils, blurred vision, profuse sweating, salivation, tremors, muscle twitching, and temporary paralysis. In severe poisoning, respiratory depression and convulsions may occur.

 SECTION 4 - FIRST AID

- IF SWALLOWED: If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with 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.
- IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
- IF ON SKIN: 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.

IF INHALED: Remove victim from immediate source of exposure and ensure 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.

NOTE TO PHYSICIAN: Carbaryl is a carbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to the stimulation of the cholinergic nervous system. These effects of overexposure are spontaneously and rapidly reversible. Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent over atropinization. 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 to maintain the effect for at least 12 hours. Dosage for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours. Narcotics and other sedatives should not be used. Further drugs like 2-PAM are not recommended unless organophosphate intoxication is also suggested.

 SECTION 5 - FIRE & EXPLOSION HAZARDS

- FLASH POINT: >93 deg C (200 deg F)
- FLAMMABILITY CLASS: Will burn.
- EXTINGUISHING MEDIA: Water Fog, CO2 or Chemical Foam
- SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate fire hazard 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.
- UNUSUAL FIRE OR EXPLOSION HAZARDS: Product will burn under fire conditions.

 SECTION 6 - SPILL AND LEAK PROCEDURES

- EVACUATION PROCEDURES: Wear appropriate protective gear for the situation. See Personal Protection Information in Section 8.
- CONTAINMENT OF SPILL: Dike spill using absorbent or impervious materials such as earth, sand or clay. Follow procedures described below under Cleanup and Disposal of Spill. Collect and contain contaminated absorbent and dike material for disposal.
- CLEANUP AND DISPOSAL OF SPILL: Recover material, if possible. Absorb with vermiculite or other inert absorbent. 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.
- ENVIRONMENTAL AND REGULATORY REPORTING: 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 enter (800-424-8802) and to state and/or local agencies. If spilled on the ground, the affected area should be removed to a depth of one or two inches and place in an appropriate container for disposal.

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SECTION 7 - STORAGE & HANDLING

STORAGE: 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.
STORAGE TEMPERATURES: Ambient (Average Warehouse) Temperatures (<100 deg F)
HANDLING: Avoid direct or prolonged contact with skin and eyes. Do not ingest.

SECTION 8 - SPECIAL PROTECTION INFORMATION

ENGINEERING CONTROLS: General, dilution/exhaust ventilation.
RESPIRATOR TYPE: Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against pesticides.
EYE PROTECTION: Safety glasses with side shield or goggles should be worn to protect against possible liquid splash or spray mist.
GLOVES: Rubber or neoprene work gloves.
OTHER PROTECTION: Body covering clothing and shoes.

SECTION 9 - PHYSICAL DATA

PHYSICAL FORM: Liquid
VAPOR PRESSURE: 18.1 mmHg @ 20 deg C (68 deg F)
SPECIFIC GRAVITY: 1.09 @ 20 deg C (68 deg F)
WATER SOLUBILITY: Miscible
VAPOR DENSITY: 0.62
COLOR: Off-white to pale yellow
BULK DENSITY: N/A
FLASH POINT: Non-flammable
FREEZING POINT: -3 deg C (27 deg F)
MOLECULAR WEIGHT: 201.2
ODOR: Phenolic
pH: 4 to 5 at 5 wt/wt%
MELTING POINT: 100 deg C (212 deg F) @ 760 mmHg

SECTION 10 - REACTIVITY DATA

STABILITY: Stable, water base product
POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Storage temperatures above 100 degrees will lead to non-hazardous decomposition. Alkalies, strong acids
DECOMPOSITION PRODUCTS: Oxides of Nitrogen, Carbon, Sulfur, and Methyl Isocyanate.

SECTION 11 - TOXICOLOGICAL INFORMATION

LD50 ORAL (rat): 1947 mg/kg
LD50 DERMAL (rabbit): >2000 mg/kg
EYE IRRITATION (rabbit): Minimally irritating
SKIN IRRITATION (rabbit): Minimally 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.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: The following data is based on the technical grade active ingredient(s) (TGAI).
MALLARD DUCK LC50: >5,000 mg/kg/8 days
BOBWHITE QUAIL LC50: >5,000 mg/kg/8 days
RAINBOW TROUT LC50: 1990 mg/l/96 hours
BLUEGILL SUNFISH LC50: 6760 mg/l/96 hours

SECTION 13 - DISPOSAL

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 - TRANSPORTATION

PROPER SHIPPING NAME: Garden Tech Sevin Concentrate Bug Killer
TECHNICAL NAME (if applicable):
UN INITIAL & NUMBER: Not regulated
CLASS:
PACKING GROUP:
RQ: Not required
HAZARD LABELS: None required

SECTION 15 - REGULATORY INFORMATION

SARA TITLE III: Carbaryl, CAS# 63-25-2, 22.9% is a SARA Title III, Section 313 Chemical.
CERCLA REPORTABLE QUANTITY: Carbaryl 100 lbs, 53 gallons of product
IARC, NTP, OSHA CARCINOGENS: None listed
CALIFORNIA PROPOSITION 65: None listed

SECTION 16 - OTHER INFORMATION

NOTICE FROM TECHPAC, LLC.
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ABBREVIATIONS KEY:
N/A - Not available or applicable
N/E - Not established
TLV - Threshold Limit Value
PEL - Permissible Exposure Limit

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