

Material Safety Data Sheet

ferti-lome(R) Liquid Sevin Garden Spray

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: Voluntary Purchasing Groups, Inc.	Box 460, Bonham, TX 75418
Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec)	
For Additional Information Contact: Product Manager or Chemtrec	Date Prepared: 01/22/00
Common Name (Used on Label): ferti-lome(R) Liquid Sevin Garden Spray	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of carbaryl, emulsifiers and water
Trade Name & Synonyms: ferti-lome(R) Liquid Sevin Garden Spray	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Carbaryl [1]	62-25-2	13.5	5 mg/m3	5 mg/m3

[1] NOTE: This is a toxic chemical and is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American conference of Governmental Industrial Hygienists.

SECTION 3 - PHYSICAL DATA

BOILING POINT (°F) Not established	SPECIFIC GRAVITY (H ₂ O=1) 1.02	VAPOR PRESSURE (mm Hg) 0.002 (carbaryl)
PERCENT VOLATILE BY VOLUME (%) 75	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Slight (<1% carbaryl)	REACTIVITY IN WATER Will not evolve flammable or toxic gases.	
APPEARANCE AND ODOR Milky white liquid, light pleasant odor.		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) 193.33 degrees C (COC) Carbaryl	FLAMMABLE LIMITS IN AIR (% by volume) Lower: 0.02oz/ft ³ Upper: Undetermined
EXTINGUISHING MEDIA con dioxide, dry chemical (small fires); water or foam (large fires)	AUTO IGNITION TEMPERATURE 625 degrees C (Carbaryl)
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined	
SPECIAL FIRE FIGHTING PROCEDURES EMPLOYEES AND LOCAL RESIDENTS: Evacuate residents who are downwind of fire. Prevent unauthorized entry to fire area. Have medical check made of employees that may have been exposed to fumes or other contamination of pesticides. FIRE AUTHORITIES: Wear protective clothing over the entire body including rubber boots, gloves, hat and coat and avoid contact with toxic fumes or smoke. Self contained breathing apparatus is	
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essential. Firemen must be immediately relieved from duty and checked for poisoning if exposed without protection. Firemen shall wash thoroughly and immediately if contacted by pesticides. Heavily exposed persons shall be examined by a physician immediately without waiting for symptoms to occur. Be alert for symptoms (See Section 5). Avoid smoking, drinking, or eating while fire fighting. Monitor any water run-off; dike surrounding area.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Eyes, Skin, Upper Respiratory tract.

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

SKIN CONTACT: Skin contact is the main route of exposure; carbaryl is a short-acting anticholinesterase agent. Skin contact may result in irritation, skin sensitization, and systemic intoxication. Will also cause headache, nausea, vomiting, sweating, abdominal cramps, and pinpoint pupils.

(2) CHRONIC OVEREXPOSURE

Carbaryl has been found to be teratogenic in guinea pigs and beagle dogs.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the nervous system.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP	IARC	OSHA
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

OTHER EXPOSURE LIMITS

STEL(carbaryl) = 10 mg/m³

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes. Seek medical attention. **SKIN CONTACT:** Remove contaminated clothing; flush with water for several minutes; seek medical attention. **INHALATION:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Consult a physician. **INGESTION:** Induce vomiting at once by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Seek Medical attention immediately. Atropine is the antidote of choice. Do Not give 2-PAM.

SECTION 6 - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
<input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	Not determined

INCOMPATIBILITY (Materials to Avoid)

Avoid contact with acids or alkalies

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or burning may produce nitrogen oxides, carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID
<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	Does not apply

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Clean up of spill may require personal protective equipment to prevent inhalation and eye or skin contact. See Section 8. Dike area of spill to prevent spread. Absorb with vermiculite or clay. Place in a sealed, labeled container. Flush area of spill with water.

WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulation.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

NIOSH/MSHA approved for protection against pesticides, dusts, and organic vapors.

VENTILATION

General or local exhaust to maintain exposure below the PEL/TLV.

PROTECTIVE GLOVES

Rubber, plastic, or PVC or other impervious gloves.

EYE PROTECTION

Chemical splash goggles (ANSI Z87.1,1979)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Long sleeved work clothing and hat, eye bath and safety shower.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Extended storage may result in decomposition. Store indoors in a cool place. Do not refrigerate.

OTHER PRECAUTIONS

In case of prolonged exposure, showers after work and a daily change of clothing is advisable.

SECTION 10 - OTHER INFORMATION

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications which are not included within this document.