

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact
ChemTel, Inc. North America 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: April 27, 2012

Ferti-lome® Liquid Carbaryl Garden Spray

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome Liquid Carbaryl Garden Spray
EPA No.: 7401-38

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients:	CAS #	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Carbaryl	63-25-2	23.7	5mg/m ³	5mg/m ³
Inert Ingredients		76.3		

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.

3. PHYSICAL DATA:

BOILING POINT (°F) Decomposes (Carbaryl)	BULK DENSITY 1.24 g/ml @ 25°C	VAPOR PRESSURE (mm Hg) 0.002 @ 40°C (Carbaryl)
PERCENT VOLATILE BY VOLUME (%) Not Established	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Dispersible with minimal agitation	REACTIVITY IN WATER Will not evolve flammable or toxic gases.	
APPEARANCE AND ODOR Milky white liquid with light pleasant odor.	pH 7.02 @ 25°C	

4. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (°C) 203°C (Carbaryl)	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not available Upper: Not available	
EXTINGUISHING MEDIA Not combustible. Use appropriate extinguishing media for material that is supplying fuel.	AUTO IGNITION TEMPERATURE Not available	
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined		
SPECIAL FIRE FIGHTING PROCEDURES Minimize breathing gases, vapors or decomposition products. Use pressure demand self-contained breathing apparatus, MSHA/NIOSH approved.		

5. HEALTH INFORMATION:

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS
Ingestion, inhalation, eye contact, and skin.

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SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

Harmful if swallowed. May lead to rapid onset of nausea, vomiting, abdominal pain, diarrhea, pinpoint pupils, blurred vision, profuse sweating, salivation, tremor, muscle twitching and temporary paralysis. In severe poison respiration depression and convulsions may occur. May be irritating to the respiratory tract.

(2) CHRONIC OVEREXPOSURE

Repeated exposure may cause more severe cholinesterase inhibition with the signs and symptoms described for acute overexposure being more pronounced.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may aggravate acute or chronic asthma and inflammatory or fibrotic pulmonary disease.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

YES NO

IARC

YES NO

OSHA

YES NO

OTHER EXPOSURE LIMITS

Not determined

EMERGENCY AND FIRST AID PROCEDURES

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. NOTE TO PHYSICIANS: Carbaryl is a moderate, reversible, cholinesterase inhibitor. Atropine is antidote. DO NOT use 2-PAM, opiates or cholinesterase-inhibiting drugs.

6. REACTIVITY DATA:

STABILITY

Unstable Stable

CONDITIONS TO AVOID

Avoid storage in freezing or high temperatures.

INCOMPATIBILITY (Materials to Avoid)

Alkalis, strong acids and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrogen oxides, carbon monoxide, carbon dioxide, methyl isocyanate and sulfur dioxide.

HAZARDOUS POLYMERIZATION

May Occur Will Not occur

CONDITIONS TO AVOID

Does not apply

7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Absorb small spills using absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent material for disposal. Ensure adequate decontamination of tools and equipment following cleanup. Wear appropriate protective equipment.

WASTE DISPOSAL METHOD

IF EMPTY: Do not reuse container. Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your

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local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

8. PERSONAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION

Use NIOSH/MSHA approved respirator for pesticide dust when handling spills or leaks; or when airborne concentrations exceed allowable exposure limits.

VENTILATION

Local or general exhaust to maintain exposure below PEL/TLV.

PROTECTIVE GLOVES

Rubber or other impervious material.

EYE PROTECTION

Chemical goggles or shielded safety glasses recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Wear long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when mixing and applying this product. Wear a hat and eye protection when making overhead applications. Wash used clothing before reuse.

9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Keep containers closed when not in use. Keep out of reach of children and pets. Store in original containers only. Store in cool, dry place and avoid excess heat. Keep product from freezing. Do not contaminate water by cleaning of equipment and disposal of wastes. Avoid contamination of food and feed stuffs.

OTHER PRECAUTIONS

Observe good personal hygiene. Always wash hand thoroughly immediately after handling and before eating, smoking or using the toilet. Do not allow children or pets to contact treated area until dust has settled.

10. TRANSPORT INFORMATION:

DEPARTMENT OF TRANSPORTATION (DOT) CLASSIFICATION: Not regulated by DOT in our non-bulk package when shipped by highway or railroad.

US SURFACE FREIGHT CLASS: Insecticides, NOI, other than Poison, NMFC Item 102120

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG) CLASSIFICATION: When this product is shipped by water (non-bulk or bulk), it is regulated as follows:

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Carbaryl)

Class: 9
UN No.: UN 3082
Packing Group: III
Marine Pollutant: Carbaryl

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11. 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.