

# MATERIAL SAFETY DATA SHEET



For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night: 1-800-424-9300  
For Medical Emergencies Only, Call: 1-877-325-1840

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

## Ferti-lome® Rose & Flower Food With Systemic Insecticide

Effective Date: December 22, 2008

### 2. PRODUCT AND COMPANY INFORMATION:

**PRODUCT:** Ferti-lome® Rose & Flower Food With Systemic Insecticide  
**EPA No.:** 228-587-7401

#### COMPANY IDENTIFICATION:

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

### 2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMPONENT	CAS NO.	% BY WEIGHT
Imidacloprid	138261-41-3	0.2
Other Ingredients		99.8

### 3. HAZARDS IDENTIFICATION:

#### Emergency Overview:

**Appearance and Odor:** Multi-colored to solid colored granular mixture with slight odor.

**Warning Statements:** Keep out of reach of children. CAUTION. Causes moderate eye irritation. Avoid contact with skin eyes or clothing.

#### Potential Health Effects:

**Likely Routes of Exposure:** Inhalation, skin and eye contact.

**Eye Contact:** Moderately irritating based on toxicity studies. Dusts may cause irritation.

**Skin Contact:** Slightly toxic if ingested based on toxicity studies.

**Inhalation:** Low inhalation toxicity

**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.

See Section 11: TOXICOLOGICAL INFORMATION for more information.

#### Potential Environmental Effects:

This produce is highly toxic to aquatic invertebrates.

See Section 12: ECOLOGICAL INFORMATION for more information.

### 4. FIRST AID MEASURES:

**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.

**If on Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If Swallowed:** Call a 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.

**Note to Physician:** No specific antidote is available. Treat the patient symptomatically.

### 5. FIRE FIGHTING MEASURES:

**Flash Point:** Not applicable

**Auto ignition Temperature:** Not applicable

**Flammability Limits:** Not applicable

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**Extinguishing Media:** Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water spray or fog.

**Special Fire Fighting Procedures:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

**Unusual Fire and Explosion Hazards:** If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplied. Dispose of fire control water later.

**Hazardous Decomposition Materials (Under Fire Conditions):** May produce gases such as hydrogen chloride, hydrogen cyanide, and oxides of carbon and nitrogen.

### National Fire Protection Association (NFPA) Hazard Rating:

**Rating for this product:**

**Health: 1 Flammability: 1 Reactivity: 0**

Hazards Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

## 6. ACCIDENTAL RELEASE MEASURES:

**Personal Precautions:** Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Methods for Containment:** Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

**Methods for Cleanup and Disposal:** Wash entire spill area with a detergent slurry, absorb and sweep into container for disposal.

Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Storage:** Store in a cool, dry place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food and feed. Store in original container and out of reach of children, preferable in a locked storage area. Do not contaminate water, food or feed by storage or disposal.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

### Personal Protective Equipment:

**Eye/face Protection:** Not normally required. To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

**Skin Protection:** To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

**Respiratory Protection:** Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

**General Hygiene Considerations:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

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### Exposure Guidelines:

Component	OSHA		ACGIH		Unit
	TWA	STEL	TWA	STEL	
Imidacloprid	NE	NE	NE	NE	

NE= Not Established

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance and Odor:** Multi-colored to solid colored granular mixture with slight odor.

**Boiling Point:** Not applicable

**Density:** 48 pounds/cubic foot

**Evaporation Rate:** Not applicable

**Freezing Point:** Not applicable

**PH:** 6.26

**Solubility in water:** Partially soluble

**Specific Gravity:** Not applicable

**Vapor Density:** Not applicable

**Vapor Pressure:** Not applicable

**Viscosity:** Not applicable

**Note:** Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

### 10. STABILITY AND REACTIVITY:

**Chemical Stability:** This material is stable under normal handling and storage conditions.

**Conditions to Avoid:** Excessive heat. Do not store near heat or flame.

**Incompatible Materials:** Strong oxidizing agents: Bases and acids.

**Hazardous Decomposition Products:** Under fire conditions may produce gases such as hydrogen chloride, hydrogen cyanide, and oxides of carbon and nitrogen.

**Hazardous Reactions:** Hazardous polymerization will not occur.

### 11. TOXICOLOGICAL INFORMATION:

#### Toxicological Data:

Data from laboratory studies conducted on a similar, but not identical, formulation:

**Oral:** Rat LD<sub>50</sub> : >5000 mg/kg (female)

**Dermal:** Rat LD<sub>50</sub> : >5000 mg/kg

**Inhalation:** Rat 4-hr LC<sub>50</sub> : >2.11 mg/l

**Eye Irritation:** Rabbit: Moderately irritating

**Skin Irritation:** Rabbit: Minimally irritating

**Skin Sensitization:** Not a contact sensitizer in guinea pigs following repeated skin exposure.

**Sub chronic (Target Organ) Effects:** Repeated overexposure to imidacloprid, may affect heart, thyroid, blood chemistry, and liver.

**Carcinogenicity/Chronic Health Effects:** Prolonged overexposure to imidacloprid can cause effects to the thyroid. Imidacloprid did not cause cancer in laboratory animal studies. The U.S. EPA has given imidacloprid a Group E classification (evidence of non-carcinogenicity in humans).

**Reproductive Toxicity:** In a two-general reproduction study in rats, imidacloprid produced reduced mean body weights and body weight gains. No other reproductive effects were observed.

**Developmental Toxicity:** Rat and rabbit studies on imidacloprid resulted in skeletal abnormalities, increased resorptions (rabbits) and reduced body weight gains at doses that were also toxic to mother animals.

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**Genotoxicity:** The imidacloprid mutagenicity studies, taken collectively, demonstrate that imidacloprid is not genotoxic or mutagenic.  
**Assessment Carcinogenicity:** None listed with ACGIH, IARC, NTP or OSHA.

See Section 2: HAZARDS IDENTIFICATION for more information.

### 12. ECOLOGICAL INFORMATION:

#### Data on Imidacloprid Technical:

96-hour LC <sub>50</sub> Rainbow Trout	222 mg/l
48-hour EC <sub>50</sub> Daphnia:	85 mg/l
96-hour LC <sub>50</sub> Mysid:	0.038 ppm
48-hour Honey Bee Contact LD <sub>50</sub> :	0.078 ug/bee
Japanese Quail Oral LD <sub>50</sub>	31 mg/kg
Bobwhite Quail Oral LD <sub>50</sub>	152 mg/kg
House Sparrow Oral LD <sub>50</sub>	41 mg/kg
48-hour Honey Bee Oral LD <sub>50</sub>	0.0039 ug/bee

#### Environmental Fate:

Hydrolysis half-life of imidacloprid is greater than 30 days at pH7 and 25°C. The aqueous photolysis half-life is less than 3 hours. The soil surface photolysis of imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26 to 229 days,

### 13. DISPOSAL CONSIDERATIONS:

#### Waste Disposal Method:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### Container Handling and Disposal:

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay away from smoke.

### 14. TRANSPORTATION INFORMATION:

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this MSDS.

For Department of Transportation (DOT) regulatory information, if required, consult transportation regulations, product-shipping papers or call Voluntary Purchasing Groups DOT Manager.

### 15. REGULATORY INFORMATION:

#### U. S. Federal Regulations:

**TSCA Inventory:** This product is exempted from TSCA because it is solely for FIFRA regulated use.

#### SARA HAZARD NOTIFICATION/REPORTING:

**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370):** Immediate

**Section 313 Toxic Chemical(s):** None

**Reportable Quantity (RQ) under U. S. CERCLA:** None

**RCRA Waste Code:** None

#### State Information:

Other state regulations may apply. Check individual state requirements.

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California Proposition 65: Not listed.

### 16. OTHER INFORMATION;

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

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