



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome Rose & Flower Food plus Systemic

SECTION 1: Identification

GHS Product identifier

Product name Ferti-lome Rose & Flower Food plus Systemic
Product number 13845; 13845Q; 13847
Brand Ferti-lome

Other means of identification

EPA Reg. No. 53883-362-7401

Recommended use of the chemical and restrictions on use

Residential use herbicide.

Supplier's details

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

Telephone 855-270-4776

Emergency phone number

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

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation, Cat. 1A

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Data Sheet

Ferti-lome Rose & Flower Food plus Systemic

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with Federal, State and local regulations.
P102	Keep out of reach of children.
P103	Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Imidacloprid (CAS no.: 138261-41-3)	0.2 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
N-methyl-2-pyrrolidone (CAS no.: 872-50-4; EC no.: 212-828-1; Index no.: 606-021-00-7)	0.5 - 9 %*
CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2; Skin corrosion/irritation, Cat. 2. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation.	
Monoammonium phosphate (map) (CAS no.: 7722-76-1)	1 - 25 %, Proprietary
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Ammonium sulfate (CAS no.: 7783-20-2)	1 - 8 %, Proprietary
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Potassium chloride (CAS no.: 7447-40-7)	1 - 25 %, Proprietary
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Urea (CAS no.: 57-13-6; Index no.: 800180)	1 - 15 %, Proprietary
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Biodac® dust free granular carrier	30 %, Proprietary
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

Trade secret statement (OSHA 1910.1200(i))

*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
In case of skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
In case of eye contact	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes;

Safety Data Sheet

Ferti-lome Rose & Flower Food plus Systemic

then continue rinsing eye. Call a poison control center or doctor for 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

To date no symptoms are known.

Indication of immediate medical attention and special treatment needed, if necessary

No specific antidote is available. Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Specific hazards arising from the chemical

Dangerous gases are evolved in the event of a fire.

Special protective actions for fire-fighters

Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protection equipment.

Environmental precautions

Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods and materials for containment and cleaning up

Methods for Containment:

Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Avoid combustible materials such as sawdust or cloth rags. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.

Methods for Clean-up:

Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

SECTION 7: Handling and storage

Precautions for safe handling

RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

Safety Data Sheet

Ferti-lome Rose & Flower Food plus Systemic

Conditions for safe storage, including any incompatibilities

See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Chemical goggles or safety glasses and full-face shield.

Skin protection

Long-sleeved shirt, long pants and shoes plus socks.

Respiratory protection

In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Mixed Granules
Odor	Pungent
Odor threshold	None known
pH	7.0 - 8.5 (1% dispersion)
Melting point/freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	> 93.3 °C
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	ca. 1.37 g/cm ³ at 20 °C
Solubility(ies)	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	No information available.

Additional properties

Physical state	Solid
Color	Mixed

SECTION 10: Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under normal storage and handling conditions.

Safety Data Sheet

Ferti-lome Rose & Flower Food plus Systemic

Possibility of hazardous reactions

No potential for hazardous reactions known.

Conditions to avoid

Avoid extreme temperatures.

Incompatible materials

No information available.

Hazardous decomposition products

No decomposition products expected under normal conditions of use.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Potassium chloride

Result: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

LC50 - Pimephales promelas (fathead minnow) - 880 mg/l - 96 h

NOEC - Pimephales promelas (fathead minnow) - 500 mg/l - 7 d

LOEC - Pimephales promelas (fathead minnow) - 1,000 mg/l - 7 d

EC50 - Daphnia magna (water flea) - >440 mg/l - 48 h

Skin corrosion/irritation

May cause slight irritation.

Serious eye damage/irritation

Moderate eye irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

The imidacloprid mutagenicity studies, taken collectively, demonstrate that imidacloprid is not genotoxic or mutagenic. Neither in vitro nor in vivo tests on N-methyl-2-pyrrolidinone demonstrated mutagenic effects.

Carcinogenicity

Imidacloprid did not cause cancer in laboratory animal studies. The U.S. EPA has given imidacloprid a Group E (evidence of non-carcinogenicity in humans). No increase in tumors was seen in rats via dietary or inhalation exposure to N-methyl-2-pyrrolidinone for two years; however, an increase in tumors was seen in rats receiving high dietary doses over a similar period. Liver tumors are not uncommon when non-genotoxic chemicals such as N-methyl-2-pyrrolidinone are tested in the mouse biosassy.

Reproductive toxicity

In a two-generation reproduction study in rats, imidacloprid produced reduced mean body weight gains. No other reproductive effects were observed. N-methyl-2-pyrrolidinone may adversely affect reproduction in rats after ingestion, although fertility is unaltered.

Safety Data Sheet

Ferti-lome Rose & Flower Food plus Systemic

Specific target organ toxicity (STOT) - repeated exposure

Repeated overexposure to imidacloprid, may affect heart, thyroid, blood chemistry, and liver. Repeated overexposure to N-methyl-2-pyrrolidinone (NMP) may cause effects to eyes, skin, respiratory system, central nervous system, liver and kidneys.

SECTION 12: Ecological information

Toxicity

ECOTOXICITY DATA: The data presented below is on technical imidacloprid.

Fish Toxicity: Bluegill (*Lepomis macrochirus*): 96 hr LC50 = 105 mg/L

Rainbow trout: 96 hr LC50 = 211 mg/L

Aquatic Invertebrate Toxicity:

Daphnia magna: 48 hr EC50 = 85 mg/L

Aquatic Plant Toxicity: No data available

Avian Toxicity:

Bobwhite Quail: 8-day dietary LC50 = 1535 ppm

Bobwhite Quail: Oral LD50 = 152 mg/kg

Mallard Duck: 8-day dietary LC50 >4,797 ppm

Honeybee Toxicity:

Contact LD50 = 0.078 µg/bee

Persistence and degradability

Hydrolysis half-life of imidacloprid is greater than 30 days at pH 7 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.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This product is highly toxic to aquatic invertebrates. DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwaters or rinsate. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To prevent contamination of the environment, do not apply near water, storm drains, gutters or ditches. Do not apply when heavy rain or downpour is predicted for that day. Apply this product only to your lawn or garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto the treated area of your lawn or garden.

SECTION 13: Disposal considerations

Safety Data Sheet

Ferti-lome Rose & Flower Food plus Systemic

Disposal methods

Product disposal

Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Packaging disposal

Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

Other disposal recommendations

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: N-methyl-2-pyrrolidone
CAS number: 872-50-4

New Jersey Right To Know Components

Common name: 1-Methyl-2-pyrrolidone
CAS number: 872-50-4

Pennsylvania Right To Know Components

Chemical name: 2-Pyrrolidinone, 1-methyl- 2,beta-butoxyethoxyethyl chloride
CAS number: 872-50-4

California Prop. 65 components

Chemical name: N-methyl-2-pyrrolidone
CAS number: 872-50-4
06/15/2001 - developmental
06/15/2001 - Developmental toxicity

Section 313

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:
N-Methyl-2-pyrrolidinone CAS Number 872-50-4

Labeling Requirements Under FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Safety Data Sheet

Ferti-lome Rose & Flower Food plus Systemic

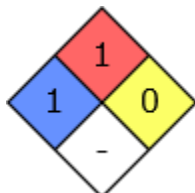
Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

Pennsylvania Right To Know Components

Chemical name: Sulfuric acid diammonium salt

CAS number: 7783-20-2

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

Voluntary Purchasing Groups, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Voluntary Purchasing Groups, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.