VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet
Ferti-lome Weed-Out Nutsedge Control Ready To Spray

SECTION 1: Identification

Product identifier

Product name	Ferti-lome Weed-Out Nutsedge Control Ready To Spray
Product number	11257
Brand	Ferti-lome

Other means of identification
EPA Reg. No. 279-3427-7401

Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham TX 75418 USA
Telephone	855-270-4776

Emergency phone number(s)

In the event or 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

General hazard statement
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

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

- Acute toxicity, inhalation (C.4.3), Cat. 4
- Specific target organ toxicity (repeated exposure) (C.4.12), Cat. 2

GHS label elements, including precautionary statements

Pictogram

Hazard statement(s)

H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P314	Get medical advice/attention if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P501	Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification
Harmful to aquatic life

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. 1,3-Benzenediamine, 2,6-dinitro-N1,N1-dipropyl-4-(trifluoromethyl)-

Concentration	2.7 % (weight)
CAS no.	29091-21-2

2. Sulfentrazone

Concentration	1.4 % (weight)
CAS no.	122836-35-5

3. GLYCEROL

Concentration	1 - 5 % (weight)
CAS no.	56-81-5

4. Propylene glycol

Concentration	< 1 % (weight)
EC no.	200-338-0
CAS no.	57-55-6

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Move 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 15-20 minutes. Call a poison control center or doctor for further treatment advice.
In case of eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. 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 a poison control center or doctor Do not give anything by mouth to an unconscious person.

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

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Carbon dioxide (CO2). Foam. Dry powder. Water spray

Special protective actions for fire-fighters
Wear self-contained breathing apparatus and protective suit

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

Environmental precautions
Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods and materials for containment and cleaning up
Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13

SECTION 7: Handling and storage

Precautions for safe handling
Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Propylene glycol (CAS: 57-55-6 EC: 200-338-0)
TWA (Inhalation): 10 mg/m3; USA (OSHA)
USA. Workplace Environmental Exposure Levels (WEEL)

2. Glycerin (mist) (CAS: 56-81-5)
PEL (Inhalation): PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): See Appendix D (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

3. Glycerin (mist), Total dust (CAS: 56-81-5)
PEL (Inhalation): 15 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 10 mg/m3 , PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

4. Glycerin (mist), Respirable fraction (CAS: 56-81-5)
PEL (Inhalation): 5 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m3, PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls
Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment

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

Eye/face protection
If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin protection
Wear long-sleeved shirt, long pants, socks, and shoes.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid

Odor	Not identified
Odor threshold	No information available
pH	6.06
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	8.68 lb/gal (1.04 g/ml)
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
Explosive properties	No information available
Oxidizing properties	No information available

SECTION 10: Stability and reactivity

Reactivity
None under normal use conditions

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing

Conditions to avoid
Excessive heat

Incompatible materials

Propylene glycol: Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

Hazardous decomposition products

Propylene glycol: Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
LD50 Oral >*** 5000*** mg/kg (rat)***
LD50 Dermal >*** 5000*** mg/kg (rabbit)***

LC50 Inhalation >*** 2.09*** mg/L (rat)*** mg/L (rat)

Skin corrosion/irritation
Slightly irritating (rabbit).

Serious eye damage/irritation
Mildly irritating (rabbit).

Respiratory or skin sensitization
Non-sensitizing.

Germ cell mutagenicity
Mutagenicity Prodiamine, Sulfentrazone: Not genotoxic in laboratory studies.

Carcinogenicity
Carcinogenicity Prodiamine, Sulfentrazone: No evidence of carcinogenicity from animal studies.

Reproductive toxicity
Prodiamine, Sulfentrazone: No toxicity to reproduction in animal studies.

STOT-single exposure
Not classified

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure. See listed target organs below.

Sulfentrazone: Hematopoietic system.
Prodiamine: In long-term feeding studies with prodiamine, the NOEL was 200 ppm in rats, and 500 ppm in mice. Toxicity was identified in the liver and thyroid of rats at 3200 ppm, where decreased body-weight gains, liver enlargement and alterations, and species specific benign thyroid tumors were seen. At 5000 ppm in mice, both decreased body weight gains and increased liver weights were reported, but no compound related tumors were observed.

Aspiration hazard
No information available

SECTION 12: Ecological information

Toxicity
5.3% of the mixture consists of components(s) of unknown hazards to the aquatic environment.
prodiamine (29091-21-2)
Active Ingredient(s) Duration Species Value Units
Prodiamine LC50 Fish >552 ppb
LC50 Aquatic organisms >658 ppb

Persistence and degradability
Sulfentrazone: Persistent. Does not readily hydrolyze.
Prodiamine: Moderately persistent. Does not readily hydrolyze.

Bioaccumulative potential
Sulfentrazone: The substance does not have a potential for bioconcentration.

Mobility in soil
Sulfentrazone: Mobile, Has potential to reach ground water.

SECTION 13: Disposal considerations

Disposal of contaminated packaging
Containers must be disposed of in accordance with local, state and federal regulations.
Refer to the product label for container disposal instructions.

Waste treatment
Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

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

New Jersey Right To Know Components
Common name: PROPYLENE GLYCOL
CAS number: 57-55-6

Pennsylvania Right To Know Components
Chemical name: 1,2-Propanediol
CAS number: 57-55-6

New Jersey Right To Know Components
Propylene glycol
CAS number: 57-55-6

Pennsylvania Right To Know Components
Propylene glycol
CAS number: 57-55-6

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components
Common name: GLYCERIN
CAS number: 56-81-5

Pennsylvania Right To Know Components
Chemical name: 1,2,3-Propanetriol
CAS number: 56-81-5

FIFRA Information
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
Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. This product is toxic to marine/estuarine invertebrates.

HMIS Rating

Ferti-lome Weed-Out Nutsedge Control Ready To Spray	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating

SECTION 16: Other information