

# 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® Over-The-Top II

Effective Date: December 19, 2008

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Ferti-lome® Over-The-Top II  
**EPA No.:** 7969-58-7401

#### COMPANY IDENTIFICATION:

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

### 2. COMPOSITION / INFORMATION ON INGREDIENTS:

#### CAS NUMBER CONTENT (W) CHEMICAL NAME

74051-80-2	18.0%	Sethoxydim
6742-94-5	65.35%	solvent naphtha
91-20-3	7.32%	naphthalene
	9.33%	Proprietary ingredients

### 3. HAZARD IDENTIFICATION:

#### EMERGENCY OVERVIEW

Warning: Causes substantial but temporary eye injury  
HARMFUL IF SWALLOWED.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
Avoid contact with the skin, eyes and clothing.

#### POTENTIAL HEALTH EFFECTS

See Product Label for additional precautionary statements.

#### Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Acute toxicity:

Slightly toxic after single ingestion. Relatively nontoxic after short-term inhalation. Slightly toxic after short-term skin contact.

#### Irritation:

May cause moderate irritation to the skin. Causes substantial but temporary eye injury.

#### Sensitization:

Skin sensitizing effects were not observed in animal studies.

#### Medical conditions aggravated by overexposure:

Existing dermatitis may be aggravated by exposure.

#### Potential environmental effects

##### Aquatic toxicity:

There is a high probability that the product is not acutely harmful to fish.

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Acutely harmful for aquatic invertebrates.  
Very toxic (acute effect) to aquatic plants.

### Terrestrial toxicity:

With high probability not acutely harmful to terrestrial organisms.  
Acutely toxic to honeybees.

## 4. FIRST-AID MEASURES

### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferable mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

### If on skin:

Rinse skin immediately with plenty of water for 15-20 minutes.

### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

### If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

### Note to physician:

**Hazards:** Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspirating of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

**Antidote:** No known specific antidote.

**Treatment:** Treat symptomatically.

## 5. FIRE-TREATING MEASURES:

Flash Point: 145°F  
Auto ignition: 443°C  
Lower explosion limit: 1.3% (V) (70°C)  
Upper explosion limit: 5.3%(V) (103°C)

### Suitable extinguishing media:

Foam, dry extinguishing media, carbon dioxide, and water spray

### Hazards during fire fighting:

Carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons.  
If product is heated above decomposition temperature, toxic vapors will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

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### Protective equipment for fire fighting:

Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

## 6. ACCIDENTAL RELEASE MEASURES:

### Personal precautions:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

### Cleanup:

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

## 7. HANDLING AND STORAGE:

### HANDLING

#### General Advice:

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS, PESTICIDE APPLICATORS AND WORKERS must refer to the to Product Label and Directions for Use attached the product for Agricultural Use Requirements in accordance with the EPA. Worker Protection Standard 40 CFR part 170 ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition – No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container are emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dust/mists/vapors. Wear suitable personal protective clothing and equipment.

#### Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

#### Storage

#### General advice:

Keep only in the original container in a cool, dry, well ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

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### Storage incompatibility:

General: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

### Temperature tolerance

Protect from temperatures above: 40°C Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Users of a pesticide product should refer to the product label for personal protective equipment requirements.

### Components with workplace control parameters

Naphthalene OSHA pel 10 ppm 50 mg/m<sup>3</sup>:  
ACGIH TWA value 10ppm; STEL value 15  
Ppm; skin designation

### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

## RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of Particles. Gas and vapors. For situations where the airborne Concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece pressure demand supplied-air respirator (SAR) with escape provisions.

### Hand protections:

Chemical resistant protective gloves, protective glove selection must be based on the user's assessment of the workplace hazards.

### Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suits.

### General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eyewash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Form: liquid  
Odor: aromatic  
Color: light amber  
PH value: 4-5

*Information on: Solvent naphtha*

Density: 0.935 g/cm<sup>3</sup> (20°C)  
Bulk density: 7.77 lb/Usg  
Partitioning coefficient: not applicable  
n-octanol/water (log Pow):  
Solubility in water: emulsifiable

### 10. STABILITY AND REACTIVITY:

#### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage.

#### Substances to avoid:

Oxidizing agents

#### Hazardous reactions:

The product is chemically stable hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

#### Decomposition products:

Prolonged thermal loading can result in products of degradation being given off.

#### Thermal decomposition:

Possible thermal decomposition products: carbon monoxide, carbon dioxide, sulphur dioxide, nitrogen dioxide, nitrogen oxide, Hydrocarbons, stable at ambient temperature. If product is heated above decomposition temperature toxic vapors may be released.

#### Corrosion to metals:

Corrosive effects to metal are not anticipated.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Oral:

LD<sub>50</sub>/rat/male: 5,000 mg/kg

LD<sub>50</sub>/rat/female: 4285.8 mg/kg

##### Inhalation:

LC<sub>50</sub> /rat: >7.6 mg/l/4h

*Information on: Petroleum distillate with Naphthalene*

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*Inhalation of high vapor/aerosol concentrations are irritating to eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. Aspiration may result in chemical pneumonitis, which may be fatal.*

### **Dermal:**

LD<sub>50</sub> /rat: >5000 mg/kg

LD<sub>50</sub> /rat: >4000 mg/kg

### **Skin irritation:**

Rabbit: Irritating.

### **Eye irritation:**

Rabbit: Moderately irritating

Rabbit: Irritating.

### **Sensitization:**

Guinea pig: Skin-sensitizing effects were not observed in animal studies.

### **Genetic toxicity:**

*Information on: Sethoxydim*

*No mutagenic effect was found in various tests with microorganisms and mammals*

### **Carcinogenicity:**

*Information on: Sethoxydim*

*In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

### **Reproductive toxicity:**

*Information on: Sethoxydim*

*The results of animal studies gave no indication of a fertility impairing effect.*

### **Developmental toxicity/teratogenicity:**

*Information on: Sethoxydim*

*In animal studies the substance showed a developmental toxic effect in high doses which were maternally toxic.*

## 12. ECOLOGICAL INFORMATION

*Information on: Solvent naphtha*

Evaluation: Not readily biodegradable (by OECD criteria).

### **Environmental toxicity**

*Information on: Sethoxydim*

*Acute and prolonged toxicity to fish:*

*Rainbow trout/ LC50 : = 170 ppm*

*Information on: Sethoxydim*

*Acute toxicity to aquatic invertebrates:*

*Daphnia magna/ EC50: : >78.1ppm*

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Information on: Sethoxydim

Toxicity to aquatic plants:

Algae/EC<sub>50</sub> : >0.3ppm

Information on: Sethoxydim

Other terrestrial non-mammals:

Honeybee / LD<sub>50</sub> : >10 ug/bee

Mallard duck/ LC<sub>50</sub> : >5620 ppm

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

### 14. DISPOSAL CONSIDERATIONS:

#### Waste disposal of substance:

Pesticides wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA regional Office for guidance.

#### Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

RCRA: This product is not regulated by RCRA.

### 14. TRANSPORT INFORMATION:

Reference Bill of Lading

### 15. REGULATORY INFORMATION:

#### Federal Regulations:

#### Registration status:

TSCA, US released/exempt

OSHA hazard category: IARC 1, 2A or 2B carcinogen, NTP

Listed carcinogen, chronic target **organ effects reported**,

ACGIH TLV established, Combustible Liquid

#### CERCLA RQ CAS NUMBER CHEMICAL NAME

100 LBS 91-20-3 naphthalene

SARA hazard categories (EPCRA 311/312): Acute, Chronic, Fire

SARA 313:

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### CAS NUMBER CHEMICAL NAME

95-63-6	1,2,4-trimethylbenzene
74051-80-2	Sethoxydim
91-20-3	naphthalene

### State regulations

#### State RTK

<u>CAS NUMBER</u>	<u>CHEMICAL NAME</u>	<u>STATE RTK</u>
91-20-3	NAPHTHALENE	ma,nj,pa

#### CA Prop.65:

**THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.**

### 16. OTHER INFORMATION:

Recommended use: herbicide

While the descriptions, designs date and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties or merchantability or fitness for a particular purpose, are made regarding products described or designs, date or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others, in no case shall the descriptions, information, and data or designs provided be considered a part of our Terms and Conditions of Sale, further, you expressly understand and agree that the descriptions, designs, data and information furnished by Voluntary Purchasing Groups, Inc hereunder are given gratis and Voluntary Purchasing Groups, Inc assumes no obligation or liability for the description, designs, date and information given or results obtained, all such being given and accepted at your risk.