

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

Effective Date: December 19, 2008

Ferti-lome® A-Vert Plus Lawn Food

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome® A-Vert Plus Lawn Food
EPA No.: 62719-192-7401

COMPANY IDENTIFICATION:

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

2. HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW

White to off-white powder with strong aromatic odor. May cause eye irritation with corneal injury.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>W/W%</u>
Isoxaben	082558-50-7	93.5
Impurities associates with Isoxaben		6.5

4. FIRST AID:

EYES: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferable an ophthalmologist.

SKIN: Wash skin with plenty of water.

INGESTION: No emergency medical treatment necessary.

INHALATION: Move person to fresh air; if effects occur, consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not applicable

METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: 0.030 oz/cu ft.

UFL: not applicable

AUTO-IGNITION TEMPERATURE: 752 to 761°F (400 to 405°C).

EXTINGUISHING MEDIA: Use water, CO₂ or dry chemicals.

FIRE AND EXPLOSION HAZARDS: Will emit toxic vapors as it burns. Contains water from fire fighting to prevent entry to surface and ground water.

FIRE-FIGHTING EQUIPMENT: Wear full protective clothing and use self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS: Contain and sweep up material of small spills. Report large spills to CHEMTREC 800-424-9300.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HANDLING: Keep out of reach of children. Causes eye irritation. Harmful if inhaled. Avoid contact with eyes, skin and clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

STORAGE: Store in original container in a cool, dry place. Do not store near heat or flame. See product label for handling/storage precautions relative to the end use of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINE: None established.

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

RESPIRATORY PROTECTION: In dusty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Particulate filter.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

EYE/FACE PROTECTION: Use chemical goggles.

APPLICATORS AND ALL OTHER HANDLERS: Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES:

BOILING POINT: Not applicable

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SOLUBILITY IN WATER: Not soluble in water

SPECIFIC GRAVITY: Not applicable

APPEARANCE: White to off white powder

ODOR: Strong aromatic

PH: (aqueous 50/50) 6.5 to 7.5

MELTING POINT: 349 to 354°F (176 to 179°C)

10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID) Do not store near heat or flame. Store in a cool dry place.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) None known.

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HAZARDOUS DECOMPOSITION PRODUCTS: Will emit toxic vapors as it burns

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May cause slight eye irritation. May cause slight corneal injury.

SKIN: Prolonged contact is essentially non-irritating to the skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD₅₀ for skin absorption in rabbits is >2000 mg/kg. Did not cause allergic skin reactions when tested in guinea pigs.

INGESTION: Very low toxicity if swallowed. The oral LD₅₀ for rats and mice is >10000 mg/kg. Harmful effects are not anticipated from swallowing small amounts.

INHALATION: Dust may cause irritation to upper respiratory tract (nose and throat).

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: In animals, effects have been reported on the following organs: liver and kidney.

CANCER INFORMATION: An increase in non-malignant liver tumors was observed with Isoxaben in one of two species tested.

TERATOLOGY (BIRTH DEFECTS): Has caused birth defects in laboratory animals only at doses toxic to the mother.

REPRODUCTIVE EFFECTS: In animal studies, has been shown to interfere with reproduction in females.

MUTAGENICITY: In-vitro and animal genetic toxicity studies were negative.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE:

MOVEMENT AND PARTITIONING:

Bioconcentration potential is low (VCF is >100 or Log Pow <3).

DEGRADATION & PERSISTENCE:

Material is expected to biodegrade only very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

ECOTOXICITY: Not expected to be acutely toxic to aquatic organisms. Material is practically non-toxic to birds on an acute basis (LD₅₀ is >2000 mg/kg).

Acute contact LD₅₀ in honeybee (*Apis mellifera*) is >101.7 ug/bee.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

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14. TRANSPORT INFORMATION:

U. S. DEPARTMENT OF TRANSPORTATION (dot) INFORMATION:

For all shipments:

The material is not regulated for transport.

15. REGULATORY INFORMATION:

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An Immediate health hazard

A delayed health effect

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health	2
Flammability	0
Reactivity	0

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, OR SUPERFUND): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Voluntary Purchasing Groups, Inc For Further Information.