

SAFETY DATA SHEET

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NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name Preen Garden Weed Preventer Plus Plant Food

Other means of identification

Product Code(s) 1184122

Recommended use of the chemical and restrictions on use

Recommended Use Pesticide - Non-Aerosol

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification Lebanon Seaboard

Address 1600 East Cumberland St.
Lebanon
PA
17042
US

Telephone Phone:800-532-0090
Fax:800-532-0090

E-mail mkernan@lebsea.com

Emergency telephone number

Company Emergency Phone Number 800-233-0628

2. HAZARDS IDENTIFICATION

Classification

| | |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |



Appearance Brown

Physical state Granular Solid

Odor Odorless

GHS Label elements, including precautionary statements

Warning

Hazard statements

Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer



Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Causes mild skin irritation. Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity 74.15 % of the mixture consists of ingredient(s) of unknown toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 74.15 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 74.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 74.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 74.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

| Chemical name | CAS No | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--------------------|-----------|----------|--|---|
| Potassium Chloride | 7447-40-7 | 19.33 | - | - |
| Ammonium sulfate | 7783-20-2 | 15.06 | - | - |
| Urea | 57-13-6 | 10.2 | - | - |
| Trifluralin | 1582-09-8 | 1.47 | - | - |

4. FIRST AID MEASURES

Description of first aid measures

- General advice** Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
- Inhalation** Remove to fresh air.
- Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
- Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
- Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
- Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.
- Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.



| | |
|---|--|
| Specific hazards arising from the chemical | Product is or contains a sensitizer. May cause sensitization by skin contact. |
| Hazardous Combustion Products | Carbon oxides. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|--|
| Personal precautions | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| Other Information | Refer to protective measures listed in Sections 7 and 8. |

Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|--|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. |
|--------------------------------|--|

Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|--|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. |
|---------------------------|--|

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| | |
|------------------------|---|
| Exposure Limits | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|------------------------|---|

Appropriate engineering controls



Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Granular; Solid
Appearance Brown
Odor Odorless
Color No information available
Odor Threshold Not applicable

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|--|-------------------|----------------|---------------|
| pH | No data available | None known | |
| Melting / freezing point | No data available | None known | |
| Boiling point / boiling range | No data available | None known | |
| Flash Point | No data available | None known | |
| Evaporation Rate | No data available | None known | |
| Flammability (solid, gas) | No data available | None known | |
| Flammability Limit in Air | | None known | |
| Upper flammability limit | No data available | | |
| Lower flammability limit | No data available | | |
| Vapor pressure | No data available | None known | |
| Vapor density | No data available | None known | |
| Relative density | No data available | None known | |
| Water Solubility | Slightly soluble | | |
| Solubility(ies) | No data available | None known | |
| Partition coefficient: n-octanol/water | Not Applicable | | |
| Autoignition temperature | No data available | None known | |
| Decomposition temperature | No data available | None known | |
| Kinematic viscosity | No data available | None known | |
| Dynamic viscosity | No data available | None known | |

Other Information

Explosive properties No information available
Oxidizing properties No information available
Softening Point No information available
Molecular Weight No information available
VOC Content (%) No information available
Liquid Density No information available



Bulk Density No information available
Particle Size No information available
Particle Size Distribution No information available

10. STABILITY AND REACTIVITY

Reactivity No information available.
Chemical stability Stable under normal conditions.
Possibility of Hazardous Reactions None under normal processing.
Hazardous Polymerization Hazardous polymerization does not occur.
Conditions to avoid None known based on information supplied.
Incompatible materials None known based on information supplied.
Hazardous Decomposition Products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5,151.80 mg/kg

Unknown acute toxicity 74.15 % of the mixture consists of ingredient(s) of unknown toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 74.15 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 74.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 74.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)



74.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------|----------------------|----------------------|--------------------------------------|
| Potassium Chloride | = 2600 mg/kg (Rat) | - | - |
| Ammonium sulfate | = 2840 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |
| Urea | = 8471 mg/kg (Rat) | - | - |
| Trifluralin | = 2517 mg/kg (Rat) | > 5000 mg/kg (Rat) | = 2800 mg/m ³ (Rat) 1 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- Skin corrosion/irritation** May cause skin irritation.
- Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.
- Respiratory or skin sensitization** May cause sensitization by skin contact.
- Germ cell mutagenicity** No information available.
- Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--------------------------|-------|---------|-----|------|
| Trifluralin 1582-09-8 | - | Group 3 | - | - |

Legend

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

- Reproductive toxicity** No information available.
- STOT - single exposure** No information available.
- STOT - repeated exposure** No information available.
- Aspiration hazard** No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|--------------------|---|---|----------------------------|--|
| Potassium Chloride | 72h EC50: = 2500 mg/L (Desmodosmus subspicatus) | 96h LC50: 750 - 1020 mg/L (Pimephales promelas) 96h LC50: = 1060 mg/L (Lepomis macrochirus) | No data available | 48h EC50: = 825 mg/L (Daphnia magna) 48h EC50: = 83 mg/L (Daphnia magna) |
| Ammonium sulfate | ? | 96h LC50: 123 - 128 mg/L (Poecilia reticulata) 96h LC50: 32.2 - 41.9 mg/L (Oncorhynchus mykiss) 96h LC50: 5.2 - | No data available | 48h LC50: = 14 mg/L (Daphnia magna) |



| | | | | |
|-------------|----|---|-------------------------|--|
| | | 8.2 mg/L (Oncorhynchus mykiss) 96h LC50: = 126 mg/L (Poecilia reticulata) 96h LC50: = 18 mg/L (Cyprinus carpio) 96h LC50: = 250 mg/L (Brachydanio rerio) 96h LC50: = 420 mg/L (Brachydanio rerio) 96h LC50: = 480 mg/L (Brachydanio rerio) 96h LC50: > 100 mg/L (Pimephales promelas) | | |
| Urea | .? | 96h LC50: 16200 - 18300 mg/L (Poecilia reticulata) | EC50 = 23914 mg/L 5 min | 48h EC50: = 3910 mg/L (Daphnia magna) |
| Trifluralin | .? | 96h LC50: 0.0072 - 0.014 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0168 - 0.0199 mg/L (Lepomis macrochirus) 96h LC50: 0.036 - 0.051 mg/L (Cyprinus carpio) 96h LC50: 0.083 - 0.134 mg/L (Pimephales promelas) 96h LC50: = 0.099 mg/L (Pimephales promelas) | No data available | 48h EC50: 0.16 - 0.36 mg/L (Daphnia pulex) 48h EC50: 0.32 - 1 mg/L (Daphnia magna) |

Persistence and Degradability No information available.

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|------------------|-----------------------|
| Ammonium sulfate | -5.1 |
| Urea | -1.59 |

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

California Waste Codes 232

14. TRANSPORT INFORMATION



| | |
|---------------------------------|--|
| DOT | NOT REGULATED |
| Proper Shipping Name | NON-REGULATED |
| Hazard Class | N/A |
| Emergency Response Guide Number | 171 |
| TDG | |
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III |
| MEX | |
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III |
| ICAO | |
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III |
| IATA | |
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| ERG Code | 9L |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III |
| IMDG/IMO | |
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| EmS-No. | F-A, S-F |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III, MARINE POLLUTANT |
| RID | |
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| Classification code | M7 |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III |
| ADR/RID-Labels | 9 |

ADR

| | |
|-------------------------|--|
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| Classification code | M7 |
| Tunnel restriction code | (-) |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III |

ADN

| | |
|----------------------|--|
| UN-No. | UN3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| Classification code | M7 |
| Special Provisions | 274, 335, 601 |
| Description | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLURALIN), 9, III |
| Hazard Labels | 9 |
| Limited Quantity | 5 KG |

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

| | |
|----------------------|---|
| TSCA | Contact supplier for inventory compliance status. |
| DSL/NDSL | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS | Contact supplier for inventory compliance status. |
| KECL | Contact supplier for inventory compliance status. |
| PICCS | Contact supplier for inventory compliance status. |
| AICS | Contact supplier for inventory compliance status. |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). 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



| Chemical name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|------------------------------|-----------|----------|-------------------------------|
| Ammonium sulfate - 7783-20-2 | 7783-20-2 | 15.06 | 1.0 |
| Trifluralin - 1582-09-8 | 1582-09-8 | 1.47 | 1.0 |

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|--------------------------|--------------------------|------------------------------------|--|
| Trifluralin 1582-09-8 | 10 lb | | RQ 10 lb final RQ RQ 4.54 kg final RQ |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|-------------------------------|------------|---------------|--------------|--------------|----------|
| Ammonium sulfate 7783-20-2 | | X | X | X | |
| Trifluralin 1582-09-8 | X | X | X | X | X |

EPA Pesticide Registration Number 961-407

16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical Properties -
HMIS Health hazards 2 * Flammability 0 Physical hazards 0 Personal Protection X
 Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By Product Stewardship
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 Latham, NY 12110
 1-800-572-6501

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Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet