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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product identifier**

Product Name Preen Garden Weed Preventer Plus Plant Food

EPA Number: 961-407

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Pesticide/Fertilizer - Non-Aerosol

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Lebanon Seaboard Corporation
Supplier Address 1600 East Cumberland St.
Lebanon
PA
17042
US

Supplier Phone Number Phone:800-233-0628 (717-273-1685)
Contact Phone 717-273-1685

Supplier Email customerservice@lebsea.com

Emergency telephone numbers: Chemtrec (Spill) 1-800-424-9300 Prosar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal word	Warning
Hazard Statements	
Combustible Dust. May form combustible dust concentrations in air.	
May irritate the digestive tract if ingested.	
May be harmful if swallowed. (Category 5)	
May cause an allergic skin reaction (Category 1)	
Causes skin irritation. (Category 2)	
Causes serious eye irritation. (Category 2A)	
May cause respiratory irritation. (Category 3)	

Precautionary Statements

Avoid handling practices that generate dusty conditions.
Keep away from heat, sparks, and open flame. No smoking.
Take precautionary measures against static discharge.
In case of skin contact, wash with plenty of soap and water.
Contaminated work clothing should not be allowed out of the workplace
Remove and wash contaminated clothing before reuse.
Avoid breathing dust.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear eye protection, protective gloves, protective clothing.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Call a poison center or doctor/physician if you feel unwell.
Store locked up in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Toxic to aquatic life with long lasting effects

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Corn cobs	NA	30 - 35
Monoammonium phosphate	7722-76-1	30 - 35
Urea	57-13-6	8 - 10
Ammonium sulfate	7783-20-2	7 - 13
Trifluralin	1582-09-8	1.47
Nonhazardous fertilizer ingredients	Various	Balance

4. FIRST AID MEASURES**General Advice**

Show this safety data sheet to the doctor in attendance.

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin Contact	Wash skin with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Uniform Fire Code Sensitizer: Solid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Note: Excessive amounts of any burnable dusts can produce explosive mixtures if allowed to disperse in the air in confined areas where ignition sources occur. Prevent excessive dust dispersal in areas of use, storage, or production. Avoid static discharge.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions 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

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. 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 Keep containers tightly closed in a cool, well- ventilated place. Keep away from food, drink and animal feed. Keep out of the reach of children. Keep away from heat, sparks, and open flame. No smoking. Keep container tightly closed and store locked up in a well-ventilated place. Take precautionary measures against static discharge.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines 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 Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective gloves and 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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Granular Solid	Odor Odor Threshold	Slight No information available	
Appearance	Light yellow			
Color	No information available			
Property	Values	Remarks/ Method		
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				
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		
Specific Gravity	No data available	None known		
Water Solubility	Slightly soluble	None known		
Solubility in other solvents	No data available	None known		
Partition coefficient: n-octanol/water	No data available	None known		
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		
Explosive properties	No data available	None known		
Oxidizing Properties	Not an oxidizer			

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

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10. STABILITY AND REACTIVITY

Reactivity

Not particularly reactive..

Chemical stability

Stable under recommended storage 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	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	Specific test data for the substance or mixture is not available.
Eye Contact	Specific test data for the substance or mixture is not available.
Skin Contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Urea 57-13-6	8471 mg/kg (rat)	Not available	Not available
Ammonium sulfate 7783-20-2	2000 mg/kg (Rat)	-	-
Trifluralin 1582-09-8	> 5000 mg.kg (rat)	> 5000 mg.kg (rabbit)	2800 mg/m ³ (Rat) 1 h

Information on toxicological effects

Symptoms	Itching. Rashes. Hives.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause sensitization of susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.
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Mutagenic Effects No information available.

Carcinogenicity 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		

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.

Chronic Toxicity No known effect based on information supplied. Contains a known or suspected carcinogen.

Target Organ Effects Skin. Respiratory system. Eyes. Gastrointestinal tract (GI).

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

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

ATEmix (oral)

5,683.00 mg/kg

ATEmix (inhalation-dust/mist)

47.60 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Urea	(<i>Scenedesmus quadricauda</i>) 192-hr cell multiplication inhibition test- TT>10,000 mg/L.	96 -h:(<i>Barillius barna</i>)LC ₅₀ = > 9,100 mg/L.	(<i>Daphnia magna</i>): 24 - h EC ₅₀ : > 10,000 mg/L .
Ammonium sulfate 7783-20-2		96h LC ₅₀ : = 250 mg/L (<i>Brachydanio rerio</i>) 96h LC ₅₀ : = 480 mg/L (<i>Brachydanio rerio</i>) 96h LC ₅₀ : = 18 mg/L (<i>Cyprinus carpio</i>) 96h LC ₅₀ : = 420 mg/L (<i>Brachydanio rerio</i>) 96h LC ₅₀ : 32.2 - 41.9 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC ₅₀ : 5.2 - 8.2 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC ₅₀ : > 100 mg/L (<i>Pimephales promelas</i>) 96h LC ₅₀ : 123 - 128 mg/L (<i>Poecilia reticulata</i>) 96h LC ₅₀ : = 126 mg/L (<i>Poecilia reticulata</i>) 96h LC ₅₀ : 460 - 1000 mg/L (<i>Leuciscus idus</i>)	48h LC ₅₀ : = 14 mg/L 24h EC ₅₀ : = 423 mg/L
Trifluralin 1582-09-8		96h LC ₅₀ : = 0.099 mg/L (<i>Pimephales promelas</i>) 96h LC ₅₀ : 0.0168 - 0.0199 mg/L (<i>Lepomis macrochirus</i>) 96h LC ₅₀ : 0.0072 - 0.014 mg/L (<i>Oncorhynchus mykiss</i>) 96h LC ₅₀ : 0.036 - 0.051 mg/L (<i>Cyprinus carpio</i>) 96h LC ₅₀ : 0.083 - 0.134 mg/L (<i>Pimephales promelas</i>)	48h EC ₅₀ : 0.32 - 1 mg/L 48h EC ₅₀ : 0.16 - 0.36 mg/L

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 232

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name NOT REGULATED
Hazard Class NON REGULATED
Marine Pollutant N/A
No.

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

IATA

Proper Shipping Name Not regulated
Hazard Class NON REGULATED
N/A

IMDG/IMO

Hazard Class Not regulated
Marine Pollutant N/A
Product is not a marine pollutant according to the criteria set by IMDG/IMO

RID

Not regulated

ADR

Not regulated

ADN

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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	7 - 13	1.0
Trifluralin - 1582-09-8	1582-09-8	1 - 5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as 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
Monoammonium phosphate 7722-76-1				X	
Ammonium sulfate 7783-20-2		X	X	X	
Trifluralin 1582-09-8	X	X	X	X	X

International Regulations**Canada****WHMIS Hazard Class**

D2B - Toxic materials



16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 0	Instability 0	Physical and Chemical Hazards - Personal Protection
HMIS	Health Hazards 2 *	Flammability 0	Physical Hazard 0	X
Chronic Hazard Star Legend * = Chronic Health Hazard				
Prepared By	Lebanon Seaboard Corporation 1600 E Cumberland Street Lebanon, PA 17042 1-800-532-0090 1-717-273-1685			
Revision Date	16 June 2016			

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