

TOWN OF WESTON

89 Wellesley Street
WESTON, MASSACHUSETTS 02493
TEL 781-786-5270 FAX 781-786-5279

Fields & Grounds Coordinator
Ben Polimer, Coordinator

MEMORANDUM

TO: Weston Residents

FROM: Ben Polimer

DATE: April 9th, 2018

RE: Town Wide Fertilizer Applications

Town athletic fields, lawns and green space will be fertilized the week of April 16th, 2018, by outside applications companies. Exact date for the application is weather dependent, but please avoid the areas to let the contractor complete their work. These applications are essential to plant health and help provide high quality green space for residents.

Information about the specific fertilizers being used is attached to this memo. Any additional questions can be directed to the Fields and Grounds Coordinator.

**TCS Growstar Professional Turf Fertilizer w
Iron (24-0-11)**

Printed: 01/10/2017

Revision: 10/25/2016

Supersedes Revision: 06/30/2016

1. Product and Company Identification

Product Code: 900674
Product Name: TCS Growstar Professional Turf Fertilizer w Iron (24-0-11)
Trade Name: Granular Fertilizer
Company Name: Turf Care Supply Corp. **Phone Number:**
 50 Pearl Road 1 (330)558-0910
 Suite 200
 Brunswick, OH 44212
Web site address: www.turfcaresupply.com
Email address: regaffairs@tcscusa.com
Emergency Contact: PERS 1 (800)633-8253
Information: Turf Care Supply Corp. 1 (330)558-0910
Synonyms: Granular Fertilizer

2. Hazards Identification

Acute Toxicity: Oral, Category 4



GHS Signal Word: **Warning**
GHS Hazard Phrases: Harmful if swallowed.
 Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
 May cause damage to respiratory system and lungs through prolonged or repeated exposure.
GHS Precaution Phrases: Avoid breathing dust.
 Wear protective gloves, protective clothing, and eye protection.
 Call a POISON CENTER or doctor/physician if you feel unwell.
GHS Response Phrases: If eye irritation persists, get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
GHS Storage and Disposal Phrases: Store in a diked or contained area to prevent uncontrolled release to the environment.
 Store in a closed container.
 If material cannot be completely used according to label directions, dispose of container and contents according to section 13.
Potential Health Effects (Acute and Chronic): Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated exposure may cause permanent eye damage. Chronic exposure may cause lung damage. Effects may be delayed.
Inhalation: May be harmful if inhaled. Low hazard for normal industrial handling. The toxicological properties of this substance have not been fully investigated. May cause systemic effects. Material may be irritating to mucous membranes and upper respiratory tract.
Skin Contact: May cause skin irritation. Dust causes mechanical irritation. Low hazard for usual industrial handling.
Eye Contact: May cause eye irritation. Dust may cause mechanical irritation.
Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for normal industrial handling. The toxicological properties of this substance have not been fully investigated. May cause systemic effects.

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3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
57-13-6	Urea	52.2 %
7447-40-7	Potassium chloride	17.5 %
1317-65-3	Limestone	14.2 %
8047-67-4	Saccharated iron oxide	8.50 %
7704-34-9	Sulfur	4.00 %
14808-60-7	Quartz	0.673 %

4. First Aid Measures

Emergency and First Aid Procedures:

- In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- In Case of Skin Contact:** Get medical aid if irritation develops or persists. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Wash off with soap and plenty of water.
- In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub eyes or keep eyes closed.
- In Case of Ingestion:** Get medical aid. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Call a poison control center. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- Signs and Symptoms Of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- Note to Physician:** Treat symptomatically and supportively.

5. Fire Fighting Measures

- Flash Pt:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Decomposes at high temperatures, resulting in toxic and corrosive products. Runoff from fire control or dilution water may cause pollution.
- Flammable Properties and Hazards:** Most of the components of this product are non-combustible. However, a portion of them may support combustion at elevated temperatures.
- Hazardous Combustion Products:** Thermal decomposition may result in the production of ammonia, formaldehyde, biuret, chlorine, cyanic acid, and cyanide, and oxides of carbon, nitrogen, phosphorus, potassium, sulfur, and chlorine, and oxides of alkaline earth metals, and certain heavier metals used as nutrients in fertilizer products, such as copper, iron, manganese, and zinc, and other toxic and irritating fumes and gases.

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6. Accidental Release Measures

**Steps To Be Taken In Case
Material Is Released Or
Spilled:**

Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Avoid runoff into storm sewers and ditches which lead to waterways. Do not let this product enter the environment except as directed on product label. Clean up spills immediately, observing precautions in the Protective Equipment section.

Personal precautions.
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions.
Do not let product enter drains.

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

PROCEDURES & PERSONAL PRECAUTIONS.
Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Methods for cleaning up.
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage

**Precautions To Be Taken in
Handling:**

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Use only in a well-ventilated area. Keep container tightly closed. Wash clothing before reuse.

Provide appropriate exhaust ventilation at places where dust is formed.

**Precautions To Be Taken in
Storing:**

Store in a cool, dry place. Keep container closed when not in use.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
57-13-6	Urea	No data.	No data.	No data.
7447-40-7	Potassium chloride	No data.	No data.	No data.
1317-65-3	Limestone	PEL: 15 (dust); 5 (resp.) mg/m3	No data.	No data.
8047-67-4	Saccharated iron oxide	No data.	No data.	No data.
7704-34-9	Sulfur	No data.	No data.	No data.
14808-60-7	Quartz	PEL: 50 ug/m3	TLV: 0.05 mg/m3 (R)	No data.

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Respiratory Equipment (Specify Type):	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Wash and dry hands.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling.

9. Physical and Chemical Properties

Physical States:	[] Gas [] Liquid [X] Solid	
Appearance and Odor:	Multi-colored, granular solid. Slight ammonia-like odor.	
pH:	No data.	
Melting Point:	~ 133 C	
Boiling Point:	No data.	
Flash Pt:	No data.	
Evaporation Rate:	No data.	
Flammability (solid, gas):	No data available.	
Explosive Limits:	LEL: No data.	UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	No data.	
Vapor Density (vs. Air = 1):	No data.	
Specific Gravity (Water = 1):	No data.	
Bulk density:	~ 45 - 65 LB/CF	
Solubility in Water:	No data.	
Octanol/Water Partition Coefficient:	No data.	
Autoignition Pt:	No data.	
Decomposition Temperature:	~ 135 C	
Viscosity:	No data.	
Additional Physical Information	The melting point and decomposition temperatures cited are for the urea component of this product, if present. See section 3. Urea decomposes before boiling. (UNEP Publication, OECD SIDS UREA, CAS No: 57-13-6)	

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10. Stability and Reactivity

Stability:	Unstable [<input type="checkbox"/>] Stable [<input checked="" type="checkbox"/>]
Conditions To Avoid - Instability:	Incompatible materials, dust generation, heating to decomposition. High temperatures.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, bases, acids, aluminum.
Hazardous Decomposition or Byproducts:	The decomposition of fertilizer products may result in the generation of some or all of the following: ammonia, formaldehyde, biuret, chlorine, cyanic acid, and cyanide, and oxides of carbon, nitrogen, phosphorus, potassium, sulfur, and chlorine, and oxides of alkaline earth metals, and certain heavier metals used as nutrients in fertilizer products, such as copper, iron, manganese, and zinc, and other irritating and toxic fumes and gases.
Possibility of Hazardous Reactions:	Will occur [<input type="checkbox"/>] Will not occur [<input checked="" type="checkbox"/>]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:	<p>Epidemiology: No information found.</p> <p>Teratogenicity: Teratogenic effects have occurred in experimental animals.</p> <p>Neurotoxic effects have occurred in experimental animals.</p> <p>Reproductive toxicity - no data available.</p> <p>Inhalation: May cause damage to organs through prolonged or repeated exposure.</p> <p>CAS# 57-13-6: Urea: Other Studies:, TCLo, Inhalation, Rat, 288.0 MG/M3, 17 W; Gigiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 30(3),43, 1986</p> <p>Acute toxicity, LD50, Oral, Rat, 8471. MG/KG; Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 51(6),8, 1986</p> <p>Standard Draize Test, Skin, Human, 22.00 MG, 3 D; Cutaneous Toxicity, Proceedings of the 3rd Conference, 1976, D, V.A., and P. L, New York, Academic Press, Inc., London United Kingdom, Vol/p/yr: -,127, 1977</p> <p>CAS# 7447-40-7: Potassium chloride: Acute toxicity, LD50, Oral, Rat, 2600. MG/KG; "Sbornik Vysledku Toxilogickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,8, 1972</p> <p>Standard Draize Test, Eyes, Species: Rabbit, 500.0 MG, 24 H; "Sbornik Vysledku Toxilogickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,8, 1972</p> <p>CAS# 7704-34-9: Sulfur:</p>
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Acute toxicity, LC50, Inhalation, Species: unspecified., 1660. MG/M3; Gigiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 34(12),8, 1990

Standard Draize Test, Eyes, Human, 8.000 PPM; Analytical Chemistry., American Chemical Soc., Distribution Office Dept. 223, POB 57136, West End Stn., Washington, DC 20037, Vol/p/yr: 21,1411, 1949

Carcinogenicity/Other Information:

This material may contain small amounts of respirable crystalline and amorphous silica. The International Agency for Cancer Research (IARC) has classified crystalline silica as a carcinogen to humans (Group 1), and amorphous silica as not classifiable as to its carcinogenicity to humans (Group 3). See "Silica, Some Silicates, Coal dust and para-Aramid Fibrils in IARC Monographs on the Evaluation of Carcinogenic Risks to Humans", (Vol. 68).

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
57-13-6	Urea	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.
1317-65-3	Limestone	n.a.	n.a.	n.a.	n.a.
8047-67-4	Saccharated iron oxide	n.a.	3	n.a.	n.a.
7704-34-9	Sulfur	n.a.	n.a.	n.a.	n.a.
14808-60-7	Quartz	Known	1	A2	n.a.

12. Ecological Information

General Ecological Information:

Environmental: If released to the atmosphere, urea will degrade rapidly in the vapor-phase by reaction with photochemically produced hydroxyl radicals (half-life of 9.6 hr). If released to soil, urea is hydrolyzed to ammonium through soil urease activity (the basis of its use as a fertilizer). The rate of hydrolysis can be fast (24 hr); however, a number a variables (such as increasing the pellet size of the fertilizer) can decrease the degradation rate from days to weeks.

Other: Do not empty into drains.

Other: Estimated BCF value = 0.05. This value indicates that this product will exhibit low bioconcentration in aquatic organisms. Biodegradation is expected to be an important fate process in water. It has a low potential to affect aquatic systems. If diluted with water, this chemical released directly or indirectly into the environment is not expected to have a significant impact.

CAS# 57-13-6: Urea:

Lethal concentration to 0% of test organisms., Creek Chub (*Semotilus atromaculatus*), 16000000. UG/L, 24 H, Mortality, Water temperature: 15.0 C - 21.0 C C, pH: 8.30, Hardness: 98.00 MG/L; Appraisal of a Chemical Waste Problem by Fish Toxicity Tests, Gillette, L.A., D.L. Miller, and H.E. Redman, 1952

CAS# 7447-40-7: Potassium chloride:

LC50, Rainbow Trout (*Oncorhynchus mykiss*), 1610000. UG/L, 48 H, Mortality, Water temperature: 17.0 C C, pH: 7.70, Hardness: 40.00 MG/L; Toxicity of Candidate Molluscicides to Zebra Mussels (*Dreissena polymorpha*) and Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W. Fisher, and H. Dabrowska, 1993

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CAS# 7704-34-9: Sulfur:
LC50, Rainbow Trout (*Oncorhynchus mykiss*), 180.0 PPM, 96 H, Mortality; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000

Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.

13. Disposal Considerations

Waste Disposal Method: If material cannot be completely used according to label directions, dispose of container and contents according to this section.

Contact a licensed professional waste disposal service to dispose of this material.

Do not let product enter drains.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Observe all federal, state, and local environmental regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
57-13-6	Urea	No	No	No
7447-40-7	Potassium chloride	No	No	No
1317-65-3	Limestone	No	No	No
8047-67-4	Saccharated iron oxide	No	No	No
7704-34-9	Sulfur	No	No	No
14808-60-7	Quartz	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acute (immediate) Health Hazard
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Chronic (delayed) Health Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Fire Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sudden Release of Pressure Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Reactive Hazard

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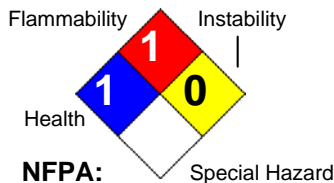
Supersedes Revision: 06/30/2016

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
57-13-6	Urea	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
7447-40-7	Potassium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
1317-65-3	Limestone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1
8047-67-4	Saccharated iron oxide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
7704-34-9	Sulfur	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1
14808-60-7	Quartz	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1

16. Other Information

Revision Date: 10/25/2016

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Turf Care Supply Corp. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purposes.



Revision Date: 10/27/2015

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANYProduct Name: **ProScope Turf Fertilizer 30-0-10 with 0.067% Acelepryn plus 0.253 Dim**

EPA No: 961-428

Recommended use: This product is a mixed granular fertilizer, insecticide, and herbicide for landscape use.**Supplier/Manufacturer**Lebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042 USA

Tel: (800) 233-0628 (717-273-1685)

Supplier Email: customerservice@lebsea.comEmergency telephone numbers in USA:

800-233-0628

Chemtrec (Spill) 1-800-424-9300

Prosar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION

OSHA Signal Word: Warning

EPA Signal Word: Caution

Hazard Statements:

H320: Causes eye irritation. (Category 2B)

H333: May be harmful if inhaled repeatedly over prolonged periods. (Category 5)

H351: Suspected of causing cancer by prolonged/repeated inhalation. (Category 2)

H412: Harmful to aquatic life with long lasting effects. (Category 3)

May irritate the digestive tract if ingested in quantity.

**Precautionary Statements for handling:** See also Section 7.

P261: Avoid breathing dust.

P264: Wash hands and exposed skin thoroughly after handling.

P281: Use appropriate personal protective equipment as required to avoid breathing dust.

P305, P337, P351: If in eyes, rinse cautiously with water for several minutes. If eye irritation persists: Seek medical advice.

P308: If exposed or concerned, seek medical advice.

P273: Avoid unintended release to the environment.

Keep out of reach of children.

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations.**Hazards not otherwise classified (HNOC):** None

Unknown acute toxicity

<1% of the mixture consists of ingredients of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Limestone	1317-65-3	1 - 5
dipropylene glycol (oxydipropanol)	25265-71-8	0.7
Dithiopyr (herbicide)	97886-46-8	0.253
Chlorantraniliprole (insecticide)	500008-45-7	0.067
Nonhazardous fertilizer ingredients	Various	Balance

**Note: Naturally mined minerals like limestone typically contain silica (sand) at amounts ranging from 1 to 6%. Fine silica particulates are considered as a carcinogen via repeated and prolonged inhalation over several years exposure.*

4. FIRST AID MEASURES

Eye Contact	Rinse eyes with water for several minutes. If discomfort or irritation persists, contact a physician.
Skin Contact	Wash with soap and water. If injury occurs, or if discomfort or irritation persists contact a physician.
Inhalation	If inhaled and discomfort occurs, move to fresh air, and keep person at rest in a position comfortable for breathing. If difficulty in breathing occurs and/or persists, administer oxygen and get medical attention. If medical advice is needed, have product container or label on hand.
Ingestion	Rinse mouth. Drink Plenty of water. If discomfort occurs, seek medical attention. Treat symptomatically. Do not induce vomiting of an unconscious person.

Self-protection of the first aider: Use any appropriate personal protective equipment as required to avoid breathing dust, and to avoid eye and skin contact.

Most important symptoms and effects, both acute and delayed:

Symptoms: Dust irritation with nasal discomfort, or skin irritation possible. Eye irritation with redness, watery eyes, itching and or burning sensation.

Indication of any immediate medical attention and special treatment needed: Treat Symptoms.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing media suitable to local circumstances and the surrounding environment. Options in this case include water, CO₂, ABC Dry Chemical extinguisher, or foam. Avoid stirring up dust with water stream.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire, do not breathe fumes.

Explosion data

Sensitivity to mechanical impact: None
 Sensitivity to static discharge: None

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.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal Precautions	Use reasonable personal protective equipment as required to prevent contact with eyes or skin and to avoid breathing dust. Remove ignition sources prior to clean-up.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.
Methods for containment	Prevent further leakage or spillage, if safe to do so.

Methods for clean-up Use reasonable personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up excess with inert absorbent material.

7. HANDLING AND STORAGE

Safe Handling Avoid breathing dust. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Wash hands thoroughly after handling.

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

Incompatible materials Avoid strong acids or alkali, or other reactive substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	Other
Dithiopyr	None Established	None Established	0.25 mg/m ³ (DOW)
Quartz silica	0.025 mg/m ³ (respirable)	(30 mg/m ³) ÷ (%SiO ₂ + 2)	3000 mg/m ³ (NIOSH IDLH)
Nuisance Dusts	10 mg/m ³ (TWA)	15 mg/m ³ (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	10 mg/m ³ TWA (Total) 5 mg/m ³ (respirable)

Engineering controls: Use with adequate ventilation to prevent dust buildup in air.

Individual protection measures: Use appropriate personal protective equipment as required to avoid breathing dust.

Eye protection Safety glasses, or goggles if eye contact is likely

Skin and Body Protection Gloves and coveralls recommended.

Respiratory Protection Dust mask recommended for dusty or misty conditions. 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.

General Hygiene When using product, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Appearance Granules

Color Mixed, various

Odor Slight

Odor Threshold No information available

pH Not applicable

Melting point/freezing point Not applicable

Boiling point / boiling range Not applicable

Flash point No information available

Evaporation rate Not applicable

Flammability (solid, gas) No information available

Flammability Limits in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific Gravity	Not applicable
Water solubility	Mostly Insoluble in water, although some ingredients may dissolve.
Solubility in other solvents	Chlorantraniliprole 1.023 mg/l @ 68 F (20 C)
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Oxidizing properties	None

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable.

Possibility of Hazardous Reactions

May release heat and fumes when mixed in solution with incompatible reactive materials.

Hazardous polymerization

Will not occur.

Conditions to avoid

High heat, sparks and open flames, as some ingredients may be burnable.

Incompatible materials

Strong acids or alkali, or other reactive substances.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions, such as Nitrogen oxides (NOx), Ammonia, Oxides of sulfur, Hydrogen chloride and Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Likely Routes of exposure: Skin (contact), dust inhalation

Symptoms	May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and diarrhea.
Sensitization	Not a skin sensitizer.
Germ cell mutagenicity	Tests were negative for genetic damage in bacteria or mammalian cell culture or in animals.
Carcinogenicity	Potential occupational carcinogen. Naturally mined minerals, like limestone typically contain sand (silica) at amounts ranging from 1 to 6%. Fine silica particulates are considered to be carcinogenic via repeated and prolonged inhalation over several years exposure. (IARC, ACGIH).
Acute Toxicity (Chlorantraniliprole)	
Acute Oral Toxicity:	>5000 mg/kg (rat)
Acute Dermal Toxicity:	>5000 mg/kg
Acute Inhalation Toxicity:	>2mg/l air, 4-hours (rat).
Reproductive toxicity	Animal tests were negative for neurological, developmental, or reproductive effects.
STOT - single exposure	No information available
STOT - repeated exposure	No information available

Chronic toxicity	No adverse effects in subchronic feeding studies in rats and dogs. Decreased body weight noted in a 28-day high dose feeding study in mice.
Acute Toxicity (Dithiopyr):	LD50, Rat, > 5,000 mg/kg No deaths occurred at this concentration.
Target Organ Effects	Liver, Kidney, Blood, Thyroid
Aspiration hazard	No information available

12. ECOLOGICAL INFORMATION

Chlorantraniliprole Ecotoxicity: Material is highly toxic to aquatic organisms on an acute basis.

Mammal:	LD50> 5000 mg/kg (Rat)
Fish:	96 hour LC50: 12.6 mg/L (Rainbow trout) Nontoxic at solubility limit
Bird:	LD50> 2250 mg/kg (Bobwhite Quail) Practically nontoxic (US EPA)
Bee:	Oral LD50 > 2250 mg/kg (Honeybee) Practically nontoxic (US EPA)
Invertebrate:	48-hour EC50: 0.0204 mg/L (<i>Daphnia magna</i>)
Plants:	72-hour ErC50: >13 mg/L (Green algae)

Dithiopyr herbicide is toxic to fish and other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any bodies of water. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent bodies of water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwater.

Persistence and degradability Dithiopyr is partially biodegradable under aerobic conditions.
The active ingredient, chlorantraniliprole, is not readily biodegradable and is moderately mobile in soil.

Bioaccumulation (dipropylene glycol) *Cyprinus carpio* (Carp) - 3 mg/l; Bioconcentration factor (BCF): 0.3 - 4.6 (OECD Test Guideline 305C)

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

This material, as supplied is not a hazardous waste according to federal regulations (40 CFR 261).

Disposal of wastes: (Example)

- This product is a hazardous waste material.
- EPA Waste Numbers are applicable for this product’s components.
- Dispose of in accordance with Local, State, and Federal regulations.

Contaminated packaging

US Federal: special packaging considerations for pesticide containers. If the container is empty, do not reuse it. Place it in the trash, unless the label specifies a different procedure. Follow local regulations.

Continued next page...

14. TRANSPORT INFORMATION

DOT:	Not Regulated	ADR:	Not Regulated
Proper Shipping Name:	Non Regulated	ADN:	Not Regulated
Hazard Class:	Not Applicable	RID:	Not Regulated
IATA:	Not Regulated	IATA:	Not Regulated
Proper Shipping Name:	Non Regulated	TDG:	Not Regulated
Hazard Class:	Not Applicable	ICAO:	Not Regulated
IMDG/IMO	Not Regulated	MEX:	Not Regulated
Hazard Class	Not Applicable		
Marine Pollutant	No		

15. REGULATORY INFORMATION

General Product Information: This product is not federally regulated as a hazardous material.

Clean Air Act: No data

Clean Water Act: No data

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(G)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: No components listed

SARA TITLE III:

- Section 302, Extremely Hazardous Substances: None
- Section 311/312 Hazard Categories: Chronic Health Hazard (Dipropylene glycol, Sand silica)
- Section 313 Toxic Chemicals: None

RCRA Status: Unused pesticides slated for disposal should be treated as a hazardous waste.

State Right-to-Know: Crystalline silica: CA, IL, MA, NH, NY, NJ, PA, RI

California Proposition 65: This product may contain detectable quantities of a substance (sand mineral: silica) known to the State of California to cause cancer by prolonged, repeated inhalation over a long period of time (months to years).

16. OTHER INFORMATION

Other Information

Disclaimer

The information provided in this material 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 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.



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: ProScape 19-0-9 50% MESA 100% EXPO .067 Acelepryn + .253 Dimension

EPA No: 000961-00428-000000

Product Identity: Pre emergent insecticide, granular

Supplier/Manufacturer

Lebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042

Tel: 1-800-233-0628 USA

(717-273-1685) INTL Supplier Email: customerservice@lebsea.com

Emergency telephone numbers:

Chemtrec (Spill) 1-800-424-9300 Prozar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION

OSHA Signal Word: Warning

EPA Signal Word: CAUTION

Hazard Statements:

H315: Causes skin irritation. (Category 2)

H320: Causes eye irritation. (Category 2B)

H333: May be harmful if inhaled. (Category 5)

H351: Suspected of causing cancer. (Category 2)

Pictogram:



Precautionary Statements for handling:

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

P305: If in eyes, rinse with water and seek medical attention if symptoms persist.

P362: Take off contaminated clothing and wash before reuse.

P352: IF ON SKIN: Wash with plenty of soap and water.

P312: IF INHALED: Call » POISON CENTER or doctor/physician if you feel unwell.

P313: If skin irritation occurs: Get medical advice/ attention.

P337: If eye irritation persists: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/container properly as required by law for waste pesticides.

P308: If exposed or concerned, seek medical advice.

Keep out of reach of children

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations.

Hazards not otherwise classified (HNOC):None

Unknown acute toxicity: <1% of the mixture consists of ingredients of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Ammonium sulfate	7783-20-2	15 - 20
Dithiopyr	97886-45-8	0.1 - 0.5
Chlorantraniliprole	500008-45-7	0.01 - 0.1
Urea	57-13-6	0.1 - 0.5
Methylene ureas	9011-05-6	30 - 35
Urea	57-13-6	5 - 10
Cellulose paper fiber	9004-34-6	1 - 5
Dolomite	16389-88-1	20 - 25
Dipropylene Glycol	25265-71-8	0.5 - 1
Violet Dye	12237-62-6	0.1 - 0.5
Potassium Sulfate	7778-80-5	15 - 20
non Hazardous Ingredients	Various	Balance

4. FIRST AID MEASURES

Eye Contact	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 Contact	Wash with soap and water. If injury occurs, or if discomfort or irritation persists contact a physician.
Inhalation	If inhaled and discomfort occurs, move to fresh air, and keep person at rest in a position comfortable for breathing. If difficulty in breathing occurs and/or persists, administer oxygen and get medical attention. If medical advice is needed, have product container or label on hand.
Ingestion	Rinse mouth. Drink Plenty of water. If you feel unwell, call a poison control center or seek medical attention. Do not induce vomiting of an unconscious person.

Self-protection of the first aider: Use any appropriate personal protective equipment as required for nuisance dusts.

Most important symptoms and effects, both acute and delayed: Nuisance dust irritation may occur with nasal discomfort under highly dusty conditions.
Eye irritation on contact with redness, tearing and burning sensation.
Redness, itching, or burning sensation on skin with prolonged contact.

Indication of any immediate medical attention and special treatment needed: Treat Symptoms. Consult physician if discomfort or irritation persists.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing media suitable to local circumstances and the surrounding environment. Options in this case include water, CO₂, ABC Dry Chemical extinguisher, or foam. Avoid stirring

up dust extinguisher stream.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire, do not breathe fumes.

Explosion data

Sensitivity to mechanical impact: None
Sensitivity to static discharge: None

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.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal Precautions	Use dust mask and gloves as needed or other reasonable personal protective equipment as required to prevent contact with eyes or skin. Remove ignition sources prior to clean-up. If in eyes, rinse cautiously with water for several minutes. If eye irritation persists: Seek medical advice. If experiencing significant respiratory symptoms: seek medical attention.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.
Methods for containment	Prevent further leakage or spillage, if safe to do so.
Methods for clean-up	Use dust mask and/or reasonable personal protective equipment as required to avoid breathing dusts. Moisten or cover powder spill with plastic sheet or tarp to minimize spreading. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Soak up excess with inert absorbent material. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Safe Handling	Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required to avoid breathing dusts or mists, and to prevent eye contact. Wash hands thoroughly after handling.
Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children.
Incompatible materials	Avoid strong acids or alkali, or other reactive substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidlines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH*
Nuisance Dusts (for granulars)	10 mg/m3 (TWA- Total)	15 mg/m3 (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	Not Established

*IDLH refers to amounts that are "Immediately Dangerous to Life or Health"

Engineering controls: Use with adequate ventilation and follow safe work practices to prevent dust buildup in air.

Individual protection measures Use personal protective equipment as required to avoid breathing dust/mist, and to prevent eye contact.

- Eye protection Provide face and eye protection: face shield and goggles recommended if face or eye contact is likely.
- Skin and Body Protection Gloves and standard work coveralls recommended
- Respiratory Protection Dust mask recommended for dusty or misty conditions. 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.
- General Hygiene When using product, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Also see Precuatory Statements in Section 2

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Granular Solid
Appearance	Granular Solid
Color	Mixed, various
Odor	Slight
Odor Threshold	No information available
pH	Not applicable
Melting point/freezing point	Not applicable
Boiling point / boiling range	Not applicable
Flash point	No information available
Evaporation rate	Not applicable
Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	Not applicable
Vapor density	Not applicable
Water solubility	Mostly Soluable
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Oxidizing properties	Not particularly reactive

10. STABILITY AND REACTIVITY

Reactivity

Not Reactive

Chemical stability

Stable

Possibility of Hazardous Reactions

May release heat and fumes when mixed in solution with incompatible reactive materials.

Hazardous polymerization

Will not occur.

Conditions to avoid

High heat, sparks and open flames, as some ingredients may be burnable.

Incompatible materials

Strong acids or alkali, or other reactive substances.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions, such as Nitrogen oxides (NO_x), Ammonia, Oxides of sulfur, Hydrogen chloride and Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure: Ingestion, eyes (contact), skin (contact), dust inhalation

Symptoms	May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and diarrhea. Eye irritation on contact with redness, tearing and burning sensation. Redness, itching, or burning sensation on skin with prolonged contact.
Sensitization	No information available.
Germ cell mutagenicity	None known unless noted below in Other
Carcinogenicity	None
Reproductive toxicity	No information available.
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	Yes
Target Organ Effects	Lungs-Nuisance dusts
Aspiration hazard	No information available
Other	

12. ECOLOGICAL INFORMATION

Toxicity Acute toxicity to fish: Material is highly toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ between 0.1 and 1 mg/L in most sensitive species tested) LC₅₀. *Oncorhynchus mydiss* (rainbow trout), 96 hour, 0.48 mg/l Acute toxicity to aquatic invertebrates LC₅₀, saltwater mysid *Mysidopsis bahia*, 0.586 mg/l EC₅₀, eastern oyster (*Cassostrea virginica*), 0.168 mg/l

13. DISPOSAL CONSIDERATIONS

Disposal of wastes:

Excess product should be used up according to label directions, to avoid disposal issues. Dispose of in accordance with Local, State, and Federal regulations.

Contaminated packaging

Do not recycle or reuse any pesticide container. Follow local regulations.

14. TRANSPORT INFORMATION

NMFC 68144 FERTILIZER COMPOUNDS (MFGD FERT) NOI, DRY W/HERBI OR INSECTI ADMIXED
<=5% GROSS WT

DOT:	Not Regulated	ADR:	Not Regulated
Proper Shipping Name:	Not Regulated	ADN:	Not Regulated
Hazard Class:	Not Applicable	RID:	Not Regulated
IATA:	Not Regulated	TDG:	Not Regulated
Proper Shipping Name:	Not Regulated	ICAO:	Not Regulated
Hazard Class:	Not Applicable	MEX:	Not Regulated
IMDG/IMO:	Not Regulated		
Hazard Class:	Not Applicable		
Marine Pollutant:	No		
IMDG:	Not a dangerous good.		
ICAO/IATA:	Not a dangerous good.		

15. REGULATORY INFORMATION

TSCA (USA): Complies.

General Product Information: This product is not federally regulated as a hazardous material.

Clean Air Act: No information is available.

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)

SARA 313 Superfund Amendments: This product contains no chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.

SARA 311/312 Hazard Categories:

Acute:	Yes
Chronic:	Yes
Fire:	No
Sudden release of pressure:	No
Reactive:	No

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) and Superfund.

Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

State Regulations:

California Proposition 65: This product does not contain detectable quantities of chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

Component Analysis - State: NJ, PA
Right to Know: Oxidipropanol: PA

16. OTHER INFORMATION

The information provided in this material 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 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.