1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: **ProScape 19-0-6 with Trimec/Dimension Turf Weed Control**

EPA No: 2217-859-961

Recommended use: This product is a mixed fertilizer/herbicide for landscape use.

Supplier/Manufacturer
Lebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042
Tel: (800) 233-0628 (717-273-1685) Supplier Email: customerservice@lebsea.com

Emergency telephone number
800-233-0628 Chemtrec 1-800-424-9300 Prosar 888-208-1368

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral Category 4
Eye Damage/Irritation - Eye Category 2A
Skin Damage/Irritation - Dermal Category 2
Acute toxicity - Dermal Category 4
Acute toxicity - Inhalation (Dusts) Category 4
Carcinogenicity - Categories 2B and 5

Carcinogenicity: The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for Carcinogenicity in humans.)
The US EPA has given the chlorophenoxy Herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.)
A recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen based on more current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects.
Naturally mined minerals, like kaolin, 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). Potential occupational carcinogen.

OSHA Signal Word: Warning
EPA Signal Word: Caution

Hazard Statements:
H302: Harmful if swallowed. (Category 4)
H313: May be harmful in contact with skin. (Category 5)
H315: Causes skin irritation. (Category 2)
H317: May cause an allergic skin reaction (Category 1B)
H319: Causes serious eye irritation. (Category 2A)
H333: May be harmful if inhaled. (Category 5)
H335: May cause respiratory irritation.
H351: Suspected of causing cancer by prolonged/repeated inhalation. (Category 2)
May irritate the digestive tract if ingested.

Precautionary Statements for handling:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P233, P403: Keep container tightly closed and store in a well-ventilated place.
P261, P281: Avoid breathing dust. Use appropriate personal protective equipment as required to avoid breathing dust.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.
P272, P363: Contaminated work clothing should not be allowed out of the workplace. Wash clothing before reuse.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301, P310, P330: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P302, P332, 352: IF ON SKIN: Gently wash with plenty of soap and water. Seek medical attention if irritation occurs and persists.
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.
P312: Call a poison center or doctor/physician if you feel unwell.
P333, P352, P313: If skin irritation or rash occurs: Wash with plenty of soap and water. Seek medical attention if irritation persists.
P340: If inhaled and breathing difficulty occurs, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362: Take off contaminated clothing and wash before reuse.
P405: Store locked up.
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): Contains peanut hulls, which may be of concern to persons with severe peanut allergies.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
*Attapulgite clay (Kaolin)	12174-11-7	1- 3
2, 4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	0.64
Dithiopyr	97886-45-8	0.16
(R)-2-(4-Chloro-2-methylphenoxy)propionic acid (Mecoprop-P)	16484-77-8	0.14
3,6-Dichloro-o-anisic acid (Dicamba)	1918-00-9	0.06
Nonhazardous fertilizer ingredients	Various	Balance

**Note: Naturally mined minerals like kaolin clay 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. 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. 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. May irritate digestive tract. May cause mild eye irritation. Treat symptomatically.

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, CO_2, 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	Do not handle until all safety precautions have been read and understood. Use only outdoors or in 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 and locked up. Keep out of the reach of children. Keep away from food, drink and animal feed.
Incompatible materials	Avoid strong acids or alkali, or other reactive substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH*
2, 4-Dichlorophenoxyacetic acid (2,4-D)	10 mg/m^3 (TWA inhalable)	10 mg/m^3 (TWA total)	100 mg/m^3
Quartz silica	0.025 mg/m^3 (respirable)	(30 mg/m^3) ÷ (%SiO2 + 2)	3000 mg/m^3
Nuisance Dusts	10 mg/m^3 (TWA)	10 mg/m^3 (TWA total)	Not Established

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

Other Information:

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

Individual protection measures: Wear protective gloves/protective clothing/eye protection/face protection.

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 normal outdoor use. 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. Use appropriate personal protective equipment as required to avoid breathing dust.
General Hygiene	When using product, do not eat, drink or smoke. Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Contaminated work clothing must not be allowed out of the workplace.

9. PHYSICAL AND CHEMCIAL 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	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Oxidizing properties	Not an oxidizer

10. STABILITY AND REACTIVITY

Reactivity: Not particularly 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 (NOx), Ammonia, Oxides of sulfur, Hydrogen chloride and Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Product Toxicity:

Acute Oral Toxicity:	>2000 mg/kg (rat)
Acute Dermal Toxicity:	>2000 mg/kg (rabbit)
Acute Inhalation Toxicity:	>2.07 mg/l (rat).

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.
Sensitization	Active ingredients have demonstrated a potential for contact allergy in mice.
Germ cell mutagenicity	No information available.

Carcinogenicity herbicide in product:
IARC: Group 2B, limited evidence for carcinogenicity in humans (for 2, 4-D)
US EPA: Class D, not classifiable as to human carcinogenicity (for 2, 4-D)
WHO: Not a carcinogen by WHO (for 2, 4-D)

Carcinogenicity (other): Potential occupational carcinogen. Naturally mined minerals, like kaolin, 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).

Reproductive toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	Dithiopyr may cause allergic skin reaction. Avoid repeated skin contact.
Target Organ Effects	Skin.
Aspiration hazard	No information available

Key Ingredients Toxicity
Dithiopyr: Inhalation LC50 >6 mg/m^3 (rat) 4 hour
Trade Secret Ingredient in Trimec: Oral LD50 >5000 mg/kg (rat); Dermal LD50 >2mL/kg (rabbit); Inhalation LC50 >590 mg/m^3 (rat) 4 hour

12. ECOLOGICAL INFORMATION

Ecotoxicity of 2, 4-Dichlorophenoxyacetic acid (2,4-D):

Fish:	96 hour LC50: 20 mg/L (*Cyprinus carpio*) semi-static
Microbes:	EC50 5.74 mg/l 15 min
Invertebrates:	72-hour EC50: 417.8 mg/L (*Daphnia magna*); 48-hour EC50: 17.6 - 32.6 mg/L (*Daphnia magna*) static
Plants:	120-hour EC50: 20 - 52 mg/L (*Pseudokirchneriella subcapitata*)

Ecotoxicity of Trade Secret Ingredient in Trimec:

Fish:	96 hour LC50: 19 mg/L (*Pimephales promelas*) static
Invertebrates:	48-hour EC50: 0.95 mg/L (*Daphnia magna*);
Plants:	72-hour EC50: 2.5 mg/L (*Skeletonema costatum*)

Fertilizers may be harmful to aquatic life with short term effects, causing algal bloom and increased BOD, depending on the amount released.
The herbicide ingredients are toxic to aquatic invertebrate, fish, and aquatic plants. 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.
Application around a cistern or well may result in contamination of groundwater or drinking water, particularly where soils are permeable and water table is shallow.

Persistence and degradability	2, 4-D has low soil persistence.
Bioaccumulation	No information available
Other adverse effects	The honeybee LD50 for 2,4-D is 0.0115 mg/bee

13. DISPOSAL CONSIDERATIONS

Hazardous waste regulations: Product contains more than 200 mg/Kg of 2,4-D.
2,4-D salts, esters, acids, and other analogues:

- RCRA#: U240
- Tox#: DO16

Disposal of wastes:

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.

14. TRANSPORT INFORMATION

DOT Description: HERBICIDES, NOI

DOT:	Not Regulated
Proper Shipping Name:	Non Regulated
Hazard Class:	Not Applicable
IATA:	Not Regulated
Proper Shipping Name:	Non Regulated
Hazard Class:	Not Applicable
IMDG/IMO	Not Regulated
Hazard Class	Not Applicable
Marine Pollutant	No

ADR:	Not Regulated
ADN:	Not Regulated
RID:	Not Regulated
IATA:	Not Regulated
TDG:	Not Regulated
ICAO:	Not Regulated
MEX:	Not Regulated

15. REGULATORY INFORMATION

General Product Information:
Clean Air Act: No data

Clean Water Act: This product contains the following substances regulated as pollutants pursuant to the Clean Water Act. Reportable quantities are shown:

2, 4-Dichlorophenoxyacetic acid (2,4-D) 100-Lb
3,6-Dichloro-o-anisic acid (Dicamba) 1000-Lb

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

CERCLA REPORTABLE QUANTITY: 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	Hazard. Subst. RQs	CERCLA/SARA RQ	Reportable Quantity
2, 4-Dichlorophenoxyacetic acid (2,4-D); 94-75-7	100 Lb	-	100 Lb (45.4 kg) Final RQ
3,6-Dichloro-o-anisic acid (Dicamba); 1918-00-9	1000 LB	-	1000 Lb (454 kg) Final RQ

SARA TITLE III:
Section 302, Extremely Hazardous Substances: None
Section 311/312 Hazard Categories: Acute-Yes; Chronic-Yes.
Section 313 Toxic Chemicals: This product contains a chemical or chemicals subject to the Superfund Amendments and

Reauthorization Act of 1986 (SARA), and to that Act and Title 40 of CFR Part 372:

Chemical Name	CAS No.	Weight %	SARA 313 Threshold Value
2, 4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	0.64	0.1%
3,6-Dichloro-o-anisic acid (Dicamba)	1918-00-9	0.06	1.0%

Hazardous waste regulations: Product contains more than 200 mg/Kg of 2,4-D.
2,4-D salts, esters, acids, and other analogues:

- RCRA#: U240
- Tox#: DO16

State Right-to-Know Regulations :

Chemical Name	NJ	MA	PA
2, 4-Dichlorophenoxyacetic acid (2,4-D)	X	X	X
3,6-Dichloro-o-anisic acid (Dicamba)	X	X	X

California Proposition 65: This product contains detectable quantities of chemical(s) known to the State of California to cause cancer.

International
Mexico Exposure Limits for 2, 4-Dichlorophenoxyacetic acid (2,4-D): TWA 10 mg/m^3; STEL 20mg/m^3

16. OTHER INFORMATION

HMIS: Health-2 Flammability-1 Physical Hazards-0 Personal Protection: X

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.