

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Product Name: **Lebanon ProScape Fertilizer with Confront 3 & Dimension 19-0-6 MESA**  
 EPA No: 961-406

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 numbers:    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:

H302: Harmful if swallowed. (Category 4)  
 H317: May cause an allergic skin reaction. (Category 1)  
 H319: Causes serious eye irritation. (Category 2A)  
 H402: Harmful to aquatic life. (Category 3)  
 May irritate the digestive tract if ingested.

Precautionary Statements for handling:

P261: Avoid breathing dust or spray mist.  
 P264: Wash hands and exposed skin thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P273: Avoid release to the environment.  
 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.  
 P333, 352: If skin irritation or rash occurs: Wash with plenty of soap and water. Seek medical attention if irritation persists.  
 P363: Remove and wash contaminated clothing before reuse.  
 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 significant amounts of peanut hulls, which may be of concern to persons with severe peanut allergies.

Unknown acute toxicity: <2% of the mixture consists of ingredients of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight %
2,4-D dimethylamine	2008-39-1	0.819
Heavy aromatic petroleum solvent naphtha	64742-94-5	0.71
Triclopyr triethylamine	057213-69-1	0.303
Fluroxypyr methyheptyl ester	81406-37-3	0.177
Dithiopyr	97886-46-8	0.145
Nonhazardous fertilizer ingredients	Various	Balance

#### 4. FIRST AID MEASURES

Eye Contact	Rinse eyes with water. Remove contact lenses if present and easy to do, and continue rinsing. 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.

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<sub>2</sub>, 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**                      Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. 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 Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH*
2,4-D dimethylamine	10 mg/m <sup>3</sup> (for the acid)	10 mg/m <sup>3</sup> (for the acid)	Not Established
Triclopyr triethylamine	Not Established	Not Established	Not Established
Fluroxypyr methyheptyl ester	Not Established	Not Established	Not Established
Dithiopyr	Not Established	Not Established	Not Established
Nuisance Dusts	10 mg/m <sup>3</sup> (TWA)	15 mg/m <sup>3</sup> (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 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 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	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 several ingredients are burnable. Some ingredients can coagulate if frozen. Some active ingredients decompose at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

**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**

<b><u>Routes of exposure:</u></b>	Ingestion, eyes (contact), skin (contact), dust inhalation. Dermal contact and inhalation are expected to be the primary routes of exposure.
<b>Symptoms</b>	May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and diarrhea.
<b>Sensitization</b>	Fluroxypyr has demonstrated the potential for contact allergy in mice. Did not cause allergic skin reactions when tested in guinea pigs.
<b>Germ cell mutagenicity</b>	2,4-D has demonstrated mammalian mutagenicity in some tests.
<b><u>Carcinogenicity:</u></b>	2,4-D dimethylamine: EPA Group D: Not classifiable as to human carcinogenicity. ACGIH- A4: Not classified as a human carcinogen. IARC: 2B - Group 2B: Possibly carcinogenic to humans Various animal cancer tests have shown no reliably positive association between 2,4-D exposure and cancer. Epidemiology studies on herbicide use have been both positive and negative with the majority being negative.

Carcinogenicity: Petroleum solvent naphtha contains naphthalene (5 to 10%w/w equates to 0.035 to 0.07% in product):  
IARC 2B, Possible human carcinogen.  
NTP Category 2, Reasonably anticipated to be a human carcinogen.  
ACGIH, Category A4, Not classifiable for humans or animals.

Acute Toxicity (2,4-D diethylamine):  
Oral (LD50) Rat: 1090 mg/kg (male); 863 mg/kg (female)  
Dermal (LD50) Rabbit: 2244 mg/kg.  
Inhalation (LD50) Rat: 2.04 mg/L, 4 hr.

Acute Toxicity (Triclopyr triethylamine):  
Oral (LD50) Rat: 1800 mg/kg  
Dermal (LD50) Rat: Greater than 5000 mg/kg.  
Inhalation (LD50) Rat: Greater than 2 mg/L.

Acute Toxicity (fluroxypyr methylheptyl ester)  
Oral (LD50) Rat: Greater than 5000 mg/kg  
Dermal (LD50) Rat: Greater than 2000 mg/kg.  
Inhalation (LD50) Rat: Greater than 1 mg/L.

Acute Toxicity (Dithiopyr):  
Oral (LD50) Rat: Greater than 3600 mg/kg  
Dermal (LD50) Rabbit: Greater than 5000 mg/kg.  
Inhalation (LD50) Rat: Greater than 11 mg/L, practically nontoxic.

Reproductive toxicity	Not known to cause reproductive or birth defects at normal exposures.
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	Skin sensitivity possible in sensitive individuals.
Target Organ Effects	No information available
Aspiration hazard	No information available

## 12. ECOLOGICAL INFORMATION

Fertilizers may be harmful to aquatic life with short term effects, causing algal bloom and increased BOD, depending on the amount released.

Herbicides are toxic to aquatic plants. 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.

2,4-D is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1mg/L in the most sensitive species tested): LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, 250 mg/l, OECD Test Guideline 203 or Equivalent.

Persistence and degradability      2,4-D is readily biodegradeable.  
Fluroxypyr is not readily biodegradable according to OECD/EEC guidelines.  
Triclopyr cannot be considered as readily biodegradable based on stringent OECD test guidelines; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Bioaccumulation                      2,4-D bioconcentration potential is low.  
Fluroxypyr bioconcentration potential is low.

Other adverse effects                2,4-D potential for mobility in soil is very high (Koc between 0 and 50).  
Fluroxypyr is expected to be relatively immobile in soil.  
Triclopyr potential for mobility in soil is very high.

**13. DISPOSAL CONSIDERATIONS**

**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**

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

**15. REGULATORY INFORMATION**

**General Product Information:**

<b>Clean Air Act:</b>	No data
<b>Clean Water Act:</b>	No data
<b>State Right-to-Know Components:</b>	2,4-D: PA, MA, NJ

Proposition 65: This product contains detectable quantities of chemical(s) known to the State of California to cause cancer (2,4-D; Naphthalene), birth defects, or other reproductive harm (Naphthalene).

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(G)(ii) because it is solely for FIFIRA regulated use as a pesticide.

CERCLA REPORTABLE QUANTITY: None

**SARA TITLE III:**

- Section 302, Extremely Hazardous Substances: None
- Section 311/312 Hazard Categories: None
- Section 313 Toxic Chemicals: Acute health Hazard- Yes; Chronic Health Hazard- Yes.
- Form R *de minimus* concentration reporting level: 1.0% (2,4-D).
- There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material .

**RCRA Status:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

**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.