

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

Product Name: **Lebanon Pro Fertilizer 25-0-8 with Trimec**
EPA No: 2217-794-961

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

OSHA Signal Word: Warning

EPA Signal Word: Caution

Hazard Statements:

H302: Harmful if swallowed.
H332: Harmful if inhaled.
H319: Causes serious eye irritation
H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction
H351: Suspected of causing cancer
H312: Harmful in contact with skin.
H412: Harmful to aquatic life with long lasting effects. Category 3
H335: May cause respiratory irritation.

Oral Toxicity Category 4
Acute Toxicity- Inhalation Category 4
Eye Irritation/damage Category 2A
Category 3
Skin sensitization Category 1
IARC Category 2B
Category 4



Carcinogen status: Two of the three herbicides in this product are chlorophenoxy herbicides. 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.) More current lifetime feeding studies in rats and mice using the herbicide 2,4-D did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that this particular chlorophenoxy herbicide is not a carcinogen. However, the product contains limestone, which naturally contains sand. Sand (quartz silica) is a known carcinogen by inhalation repeatedly over long periods.

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, P405: Keep container tightly closed and store, locked up in a well-ventilated place.
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.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment, except in normal, approved applications.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use appropriate personal protective equipment as required to avoid breathing dust.
P301, P310, P330: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P305, P337, P351: If in eyes, rinse cautiously with water for several minutes. If eye irritation persists: Seek medical advice.
P308, P312: If exposed or concerned, seek medical advice. Call a poison center or doctor/physician if you feel unwell.
P322: See specific first aid measures on product label.
P333, 352: If skin irritation or rash occurs: Wash with plenty of soap and water. Seek medical attention if irritation persists.
P340, 341: If inhaled and breathing difficulty occurs, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363: 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): None

Unknown acute toxicity <3% of the mixture consists of ingredients of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
*Dolomitic limestone	16389-88-1	20 - 25
Sulfur	7704-34-9	1 - 5
*Attapulgite (Kaolin clay)	12174-11-7	1 - 3
Dichlorophenoxyacetic acid (2,4-D)	94-75-7	0.76
R-2-(4-chloro-2-methylphenoxy) propionic acid (Mecoprop; MCP)	16484-77-8	0.17
3,6-Dichloro-o-anisic acid (Dicamba)	1918-00-9	0.07
Nonhazardous fertilizer ingredients and fillers	Various	Balance

**Note: Naturally mined minerals like limestone and attapulgite 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, rash, or discomfort occurs, 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; skin irritation possible, with potential to develop allergic sensitivity in some individuals. Eye irritation with burning, redness and watery eyes.

Indication of any immediate medical attention and special treatment needed: Treat Symptoms. Chlorophenoxy compounds are usually excreted in about 72 hours.

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	Do not handle until all safety precautions have been read and understood. 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. Store locked up. Keep away from food, drink and animal feed. 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*
Quartz silica	0.025 mg/m ³ (respirable)	(30 mg/m ³) ÷ (%SiO ₂ + 2)	3000 mg/m ³
2, 4-Dichlorophenoxyacetic acid (2,4-D)	10 mg/m ³ (TWA inhalable)	10 mg/m ³ (TWA total)	100 mg/m ³
Nuisance Dusts	10 mg/m ³ (TWA)	10 mg/m ³ (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, and face protection. Use appropriate personal protective equipment as required to avoid breathing dust

Eye protection	Safety glasses, or goggles if eye contact is likely
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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 and exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

No 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

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

Ingestion:	May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and diarrhea.
Eye contact:	Moderately irritating to eyes on contact.
Skin contact:	Harmful if absorbed through skin.
Sensitization	May cause an allergic skin reaction in sensitive individuals.
Germ cell mutagenicity	No information available.
Symptoms	May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and diarrhea.
Carcinogenicity	2,4-D: IARC 2B (Limited evidence for carcinogenicity in humans) US EPA: Class D (Not classifiable as to human carcinogenicity) World Health Organization (WHO) concluded that 2,4-D is not a carcinogen Silica: 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).
Chronic toxicity:	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse liver effects. Silica: Silicosis, cancer (lungs).
Target Organ Effects	Central nervous system, kidney, liver, skin.
Aspiration hazard	No information available

Toxicity of herbicide concentrated herbicide mixture:

Acute Oral Toxicity:	LD50 > 2240 mg/kg (male rates); and >1550 (female rats)
Acute Dermal Toxicity:	LD50 >2010 mg/kg (rabbit)
Acute inhalation toxicity (rat):	>2.04 mg/L
Reproductive toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	Potential to develop allergic skin reaction with repeated exposures;
Target Organ Effects	Lungs: silicosis, cancer.
Aspiration hazard	No information

12. ECOLOGICAL INFORMATION
Ecotoxicity of 2, 4-Dichlorophenoxyacetic acid (2,4-D):

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

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

The herbicide ingredients are toxic to aquatic plants, fish, and invertebrates. 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:

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.

14. TRANSPORT INFORMATION

DOT Description: HERBICIDES, NOI - NMFC #50520

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 hazardous under the criteria of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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 (= 9025 Lbs of this product formulation)
3,6-Dichloro-o-anisic acid (Dicamba)	1000-Lb (= 70 tons of this product formulation)

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

CERCLA REPORTABLE QUANTITY: 100 Lbs of 2,4-D (= 9025 Lbs of this product formulation)
 1000 Lbs of Dicamba (= 1.4 million Lbs of this product formulation)

SARA TITLE III:

- Section 302, Extremely Hazardous Substances: None
- Section 311/312 Hazard Categories: Delayed Health Hazard
- Section 313 Toxic Chemicals: 2,4-D ethyl (94-75-7) and Dicamba (1918-00-9)

RCRA Status: If discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste (40 CFR 261.20-24).

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 Components:

- 2, 4-Dichlorophenoxyacetic acid (2,4-D): NJ, MA, PA
- 3,6-Dichloro-o-anisic acid (Dicamba): NJ, MA, PA
- Crystalline silica: CA, IL, MA, NH, NY, NJ, PA, RI

California Proposition 65: This product contains detectable quantities of chemicals known to the State of California to cause cancer.

International

Mexico Exposure Limits for 2, 4-Dichlorophenoxyacetic acid (2,4-D): TWA 10 mg/m³; STEL 20mg/m³

16. OTHER INFORMATION

NFPA: Health hazards 2 Flammability 0 Instability 0 Physical and Chemical Properties -
HMIS: Health hazards 2 Flammability 0 Physical Hazards 0 Personal Protection X

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.

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.