

Material Safety Data Sheet

Lebanon IsoTek³¹® 24-2-12 Controlled-Release Fertilizer

Lebanon Turf Products
 A Division of Lebanon Seaboard Corporation
 1600 East Cumberland Street
 Lebanon, PA 17042

In case of emergency call:
 CHEMTREC 1-800-424-9300
 Non-emergency calls:
 1-717-273-1685

Section One – Material Identification

Product Name: Lebanon IsoTek³¹® 24-2-12 Controlled-Release Fertilizer
 Analysis: 24-2-12
 Product Code: 21-52259

NFPA Hazard Ratings	
Health	1 (Slight)
Flammability	0 (Least)
Reactivity	0 (Least)

Section Two – Hazardous Components

<u>Component Material</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Monoammonium Phosphate	7722-76-1	None	None
Ammonium Sulfate	7783-20-2	None	None
Isobutylidene Diurea	6104-30-9	None	None
Urea	57-13-6	None	None
Potassium Sulfate	7778-80-5	None	None
Sulfate of Potash-Magnesia	17855-14-0	None	None
Iron Sulfate	7782-63-0	1 mg/m ³	1 mg/m ³
Manganese Sulfate	7785-87-7	5 mg/m ³	5 mg/m ³
Nuisance Dust	N/A	15 mg/m ³ (total dust)	10 mg/m ³ (respirable)

Section Three – First Aid Procedures

- Eyes: Flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists
- Ingestion: Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink one to two glasses of water, then induce vomiting until vomit is clear. Call physician.
- Skin: Wash completely and thoroughly. If irritation develops, consult a physician.
- Inhalation: Remove to fresh air. Treat symptomatically.

Section Four – Health Hazard Information

Summary of Risks: Possible skin or eye irritation, nausea, vomiting, or diarrhea. Inhalation of heavy concentrations of dust which contains manganese over prolonged periods (1-3 years) has been reported to cause damage to the central nervous system.

Primary Entry Route(s): Ingestion, inhalation

Acute Effect(s): See summary

Chronic Effect(s): None known

Medical conditions which may be aggravated by contact: Inhalation of dust may aggravate asthmatic condition. Skin abrasions and sores.

Ingredients Listed as a Carcinogen: IARC Monographs: No
 NTP: No
 OSHA: No

Section Five – Personal Protection and Precautions

Personal Protective Equipment

- Goggles: Not required for normal use as fertilizer but suggested as means of avoiding contact with eyes.
- Gloves: Not required for normal use as fertilizer.
- Respirator: If airborne dust levels are high, use of a NIOSH/MSHA approved respirator is recommended.

Workplace Considerations

- Ventilation: Adequate ventilation recommended when potential for dust is high.
- Safety Stations: Running water should be available in case of eye contact.

Section Six – Physical Hazard Information

Fire and Explosion

Flash Point (Test Method): N/A Flammable Limits (% in Air): N/A Auto Ignition Temperature: N/A

Physical Properties

Appearance: Granular Melting Point: N/A Boiling Point: N/A
Solubility in Water: N/A Specific Gravity: N/A Vapor Pressure: N/A
Evaporation Rate: N/A

Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: None known
Hazardous Decomposition Products: Urea and urea/aldehyde condensation products can generate ammonia in a fire. Oxides of nitrogen, carbon, sulfur, and potassium may also be produced.
Chemical Incompatibilities: None known
Unusual Fire, Explosion, and Reactivity Hazards: Urea and urea/aldehyde condensation products can generate ammonia in a fire. Oxides of nitrogen, carbon, sulfur, and potassium may also be produced.
In Case of Fire: Evacuate area. Flood with water to cool containers. Wear self-contained breathing apparatus. Contain run-off as it may be toxic to aquatic organisms.
Extinguishing Media: CO₂, dry chemical, water fog, or foam.

Section Seven – Regulatory Information

DOT Classification: Not DOT regulated

Section Eight – Storage and Special Precautions

Precautions to be taken in handling and storage

Consult product label. Keep out of reach of children. Avoid bag breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water when disposing of equipment washwaters. Keep out of lakes, streams, or ponds. Store in a clean, dry place. Reseal opened bag(s) by folding top down and securing. Use only clean, dry spreaders. Do not store unused product in spreaders.

In Case of Spills: Sweep up spills. Avoid contact with skin, eyes, or clothing. Wash after handling.

Waste Management/Disposal: Dispose of on-site per label instructions or remove to approved landfill.

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