# SAFETY DATA SHEET

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

Product Name: Emerald Isle Solutions CPR 4-0-1

Recommended use:

This product is a concentrated liquid fertilizer for landscape use.

Supplier/Manufacturer

Lebanon Seaboard Corporation 1600 East Cumberland Street Lebanon PA 17042 Tel: 800-233-0628 (717-273-0685)

Supplier Email: customerservice@lebsea.com

Emergency telephone numbers

Chemtrec (Spill) 1-800-424-9300

Prosar (Health) 888-208-1368

### 2. HAZARDS IDENTIFICATION

Signal Word: Warning

### **Hazard Statements:**

H302: Harmful if swallowed (Category 4)

H319: Causes serious eye irritation (Category 2A).

H315: Causes skin irritation with prolonged contact (Category 2)

H317: May cause an allergic skin reaction in sensitive individuals. (Category 1B)

Pictogram: Exclamation Point

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

P261: Avoid breathing spray mist.

P264: Wash hands 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.

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

P301, P310, P330: IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

P332, P352: If skin irritation or rash occurs: Wash with plenty of soap and water. Seek medical attention if irritation persist.

P351, P337: In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses if easy to do, and continue rinsing. If eye irritation persists: Seek medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

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

<u>Hazards not otherwise classified (HNOC):</u> Contains oxidizers in water solution. May intensify fire if evaporated to dryness. If clothes are wetted with product, they may become quite flammable and reactive when dry. May irritate the digestive tract if ingested in quantity.

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



#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No.	Weight %		
Seaweed extract aqueous solution	84775-78-0	50		
Urea	57-13-6	14		
EDTA	64-02-8	7.8		
Ferrous sulfate	7720-78-7	5.5		
Magnesium nitrate	10377-60-3	5		
Citric Acid	77-92-9	3.2		
Potassium citrate	6100-05-6	2.8		
Glucoether surfactant	None established	2.1		
Manganese sulfate	7785-87-7	1.6		
Magnesium sulfate	10034-99-8	1.6		
Zinc Nitrate	7779-88-6	1.2		
Disodium octaborate tetrahydrate	12008-41-2	0.13		
Potassium sorbate	24634-61-5	0.1		
Water	7732-18-5	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 discomfort occurs, seek medical attention. Do not induce

vomiting of an unconscious person.

<u>Self-protection of the first aider</u>: When spraying, use dust/mist mask or any appropriate personal protective equipment as required.

Most important symptoms and effects, both acute and delayed:

Symptoms: Large oral doses of nitrates may cause dizziness, abdominal pain, vomiting, bloody diarrhea, weakness, convulsions, and collapse. May interfere with blood's capability to carry oxygen (methemoglobinemia), as evidenced by bluish color to skin and lips. Eye irritation on contact with redness, tearing and burning sensation. Mist inhalation can result in irritation with nasal discomfort; skin irritation possible, but not likely with normal use.

<u>Indication of any immediate medical attention and special treatment needed</u>: Treat Symptoms. Consider nitrate toxicity if inqested in quantity.

#### 5. FIRE FIGHTING MEASURES

### Suitable extinguishing media

Liquid product is not a fire hazard, and will not burn. But it contains oxidizers in aqueous solution, which can promote a fire if dried down. In case of fire, use extinguishing media suitable to local circumstances and the surrounding environment. Options in this case include water, ABC Dry Chemical extinguisher, or foam.

# 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. Do not allow nitrates to evaporate to dryness May intensify fire if evaporated to dryness. If clothes are wetted with product, they may become quite flammable and reactive when dry.

### **Explosion data**

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

### 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

skin, and to avoid breathing mist. Take off all contaminated clothing and wash before re-

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use.

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. Absorb spillage to prevent material

damage.

Methods for clean-up Absorb spillage to prevent material damage. Use reasonable personal protective

equipment as required. Soak up excess with inert absorbent material, or take up mechanically, placing in appropriate containers for disposal. Avoid creating mist. Clean

contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

Safe Handling Use personal protective equipment during use as required to prevent contact with eyes or skin, and

to avoid breathing mist. Wash hands thoroughly after handling. Do not eat, drink or smoke when

using this product.

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

not allow concenntrate to evaporate to dryness.

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*	
Magnesium nitrate (13446-18-9)	None established	None established	None established	
Glucoether surfactant	None established	None established	None established	
Iron salts, soluble, as Fe	1 mg/m³ (as Fe)	None established	None established	

<sup>\*</sup>IDLH refers to amounts that are "Immediately Dangerous to Life or Health"

Engineering controls: Avoid creating fine, inhalable mists during application.

#### Individual protection measures

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

Eye protection Wear eye and face protection: safety glasses, or goggles if eye contact with

concentrated product is likely.

Skin and Body Protection Gloves and normal work coveralls recommended.

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Respiratory Protection Dust/mist mask recommended for 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. Remove and wash contaminated clothing before reuse.

#### 9. PHYSICAL AND CHEMCIAL PROPERTIES

Physical state Aqueous Liquid

**Appearance** Solution Color Mixed, various

Odor Slight

Odor Threshold No information available

Hq 3.4

No information available Melting point/freezing point Boiling point / boiling range No information available

Flash point Not applicable

Evaporation rate No information available

Flammability (solid, gas) Will not burn

Flammability Limit in Air

Upper flammability limit: Will not burn Lower flammability limit: Will not burn Vapor pressure Similar to water

Vapor density No information available

Specific Gravity 1.168

Water solubility Fully soluble in water Solubility in other solvents No information available Partition coefficient No information available

Autoignition temperature Will not burn

Decomposition temperature No information available

Oxidizing properties Contains oxidizers in aqueous solution, which can promote a fire if dried down.

# 10. STABILITY AND REACTIVITY

### Reactivity

Contains oxidizers in aqueous solution, which can promote combustion or other oxidative reactions if dried down.

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: Do not allow concentrate to evaporate to dryness.

**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), mist inhalation

Symptoms Eye irritation on contact with redness, tearing and burning sensation. May irritate the digestive

tract if ingested in quantity, causing nausea, vomiting and diarrhea. Large oral doses of nitrates may cause dizziness, abdominal pain, vomiting, bloody diarrhea, weakness, convulsions, and collapse. May interfere with blood's capability to carry oxygen (methemoglobinemia), as evidenced

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by bluish color to skin and lips.

Sensitization Citric acid has been known to cause allergic sensitization in susceptible individuals. (Note that

citric acid is often used as an approved food additive and flavoring.)

Germ cell mutagenicity Potassium Sorbate induced chromosome aberrations in cultured Chinese hamster cells.

Cytogenetic Analysis (Hamster-Lung) 10 gm/L; Cytogenetic Analysis (Hamster-Fibroblast) 4 gm/L/48 hours; Sister Chromatid Exchange (Hamster Lung) 10 gm/L. (Note that potassium

sorbate is often used as an approved food preservative.)

Carcinogenicity No ingredients are listed as a carcinogen.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Target Organ Effects
Aspiration hazard
No information available
No information available
No information available
No information available

Magnesium nitrate, hexahydrate (13446-18-9): Oral LD50 Rat: 5440 mg/kg

# 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.

Persistence and degradability No information available

Bioaccumulation Not expected to bioaccumulate based on composition.

### 13. DISPOSAL CONSIDERATIONS

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

### Disposal of wastes:

This product is a non-hazardous waste material suitable for approved solid waste landfills.

No EPA Waste Numbers are applicable for this product's components.

Dispose of in accordance with Local, State, and Federal regulations.

### Contaminated packaging

No US Federal special packaging considerations at the date of this document. Follow local regulations.

#### 14. TRANSPORT INFORMATION

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**DOT Description: None** 

This product is not a hazardous material and is not regulated by the United States Department of Transportation (D.O.T).

IMDG: Not a dangerous good. ICAO/IATA: Not a dangerous good.

#### 15. REGULATORY INFORMATION

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

#### **SARA 313:**

Magnesium nitrate (13446-18-9):

- 1 % de minimis concentration (Chemical Category N511) (related to Water Dissociable Nitrate Compounds) Zinc nitrate (7779-88-6):
  - 1 % de minimis concentration (Chemical Category N511) (related to Water Dissociable Nitrate Compounds)

### SARA 311/312 Hazard Categories

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

**CERCLA**: Ferrous sulfate: RQ = 1000 Lbs

EDTA: RQ = 5000 Lbs Zinc nitrate: RQ = 1000 Lbs

Clean Air Act: No information is available.
Clean Water Act: No information is available.

### **State Regulations**

### **Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS#	CA	MA	MN	NJ	PA	RI
Magnesium Nitrate (related to Mn) <sup>1</sup>	13446-18-9	Yes <sup>1</sup>					
Zinc Nitrate	7779-88-6	Yes	Yes	No	Yes	Yes	No
Ferrous sulfate	7720-78-7	Yes	Yes	No	Yes	Yes	No

Other state regulations may apply. Check individual state requirements.

California Proposition 65: No prop 65 ingredients used.

### **Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS#	Minimum Concentration
Magnesium Nitrate (related to Mn) <sup>1</sup>	13446-18-9	1% (related to elemental manganese, Mn)

# 16. 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.