

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC® – TOLL FREE 1-800-424-9300

## 1. PRODUCT AND COMPANY IDENTIFICATION

### MANUFACTURED FOR:

LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-866-944-8565  
**Product Emergency Phone:** 1-775-667-6044

**PRODUCT NAME:** CARBO-BOOST 2-15-15  
**CHEMICAL NAME:** NONE  
**CHEMICAL FAMILY:** LIQUID PLANT NUTRITIONAL  
**MSDS Number:** 1000174108-13-LPI **MSDS Revisions:** All sections

**Date of Issue:** 04/12/13

**Supersedes:** 04/03/12

## 2. HAZARDS IDENTIFICATION

**KEEP OUT OF REACH OF CHILDREN – CAUTION: Irritant:** Product may irritate eyes and skin. Primary routes of exposure are dermal, inhalation, ingestion.

This product is dark brown to black liquid with little odor.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name and Synonyms:</u>	<u>Percent Hazardous by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Potassium Hydroxide	15.00	1310-58-3	2 mg/m <sup>3</sup> C
Phosphoric Acid	15.00	7664-38-2	1 mg/m <sup>3</sup>
	<b><u>Non Hazardous</u></b>		
This product is a blend of the following non-hazardous ingredients:	70.00		
Water		7732-18-5	not listed
Lo-biuret Urea		57-13-6	not listed

## 4. FIRST AID MEASURES

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.**

**NOTES TO PHYSICIAN:** Treatment based on the sound judgment of the physician and the individual reactions of the patient.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use carbon dioxide (CO<sub>2</sub>) or foam. Water can be used to cool fire exposed containers.

**SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers may burst if exposed to extreme heat.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Dike and contain. If uncontaminated, reuse product. If contaminated, absorb spill with clay, sand, or sawdust. Place in a chemical waster container for proper disposal.

**CAUTION:** Spill area will be quite slippery.

**7. HANDLING AND STORAGE**

**HANDLING:** Be sure proper ventilation, respiratory, and eye protection are used. Avoid eye contact. Do not breathe mist.  
**STORAGE:** Keep container closed. Store in a cool, dry place. Store at temperatures between 41°F and 104°F (5°C and 40°C), in well-ventilated areas and away from heat or flame. Avoid moisture contamination. Use reasonable care and store away from oxidizing materials. Keep away from heat, sparks, and flame. Keep away from children.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**APPROPRIATE ENGINEERING CONTROLS:** Local and general ventilation is recommended. Keep away from sparks and flame.

**INDIVIDUAL PROTECTION MEASURES**

**RESPIRATORY PROTECTION:** Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines.

**EYE / FACE PROTECTION:** Chemical goggles or shielded safety glasses.

**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Phosphoric Acid	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Potassium Hydroxide	not listed	2mg/m <sup>3</sup> C (STEL/CEIL)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Dark brown liquid with caramel odor

**SPECIFIC GRAVITY (Water = 1):** 1.319 g/ml

**VAPOR PRESSURE:** Not known

**FLASHPOINT:** Not flammable

**VAPOR DENSITY (Air = 1):** Not known

**PERCENT VOLATILE (by volume):** Not known

**FLAMMABLE LIMITS (LFL & UFL):** Not known

**AUTO-IGNITION TEMPERATURE:** Not known

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**SOLUBILITY:** Soluble

**pH:** Not known

**MELTING POINT:** No Data

**BULK DENSITY:** 11.01 lbs/gal. / 1.32 Kg/L

**BOILING POINT:** >200°F / >93°C

**VISCOSITY:** Not known

**EVAPORATION RATE: (Butyl Acetate = 1):** Not known

**RELATIVE DENSITY:** Not known

**DECOMPOSITION TEMPERATURE:** Not known

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** None known.

**CHEMICAL STABILITY:** Stable

**POSSIBILITY OF HAZARDOUS REACTIONS:** None known. Will not polymerize.

**CONDITIONS TO AVOID:** Avoid excessive heat.

**INCOMPATIBLE MATERIALS:** Strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release toxic fumes of ammonia, oxides of carbon, and oxides of nitrogen in a high temperature or fire situation.

**11. TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Eye contact, skin, ingestion, and/or inhalation.

**LC<sub>50</sub> (rat):** Not determined or available

**Oral LD<sub>50</sub> (rat):** Not known for product

**Oral LD<sub>50</sub> (rat):** Lo-biuret Urea: 5,300 mg/kg; Phosphoric Acid 1,530 mg/kg; Potassium Hydroxide: 500 - 700 mg/kg

**Acute Toxicity Estimates:** Not available

**Serious Eye Damage / Irritation (rabbit):** Not determined

**Respiratory or Skin sensitization (guinea pig):** Not a skin sensitizer

**Specific Target Organ Toxicity:** None known.

**Dermal LD<sub>50</sub> (rabbit):** Not known for product

**Aspiration:** Not determined

**Skin Corrosion / Irritation (rabbit):** Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** None listed or known.

**Persistence and Degradability:** Not known.

**Bioaccumulative Potential:** Not known.

**Mobility in Soil:** Not known.

**13. DISPOSAL CONSIDERATIONS**

**WASTE TREATMENT METHODS:** This material must be disposed of according to local, state, and federal requirements and procedures.

**14. TRANSPORT INFORMATION**

**UN No.:** NOT APPLICABLE

**UN PROPER SHIPPING NAME:** NOT APPLICABLE

**TRANSPORT HAZARD CLASS:** NOT APPLICABLE

**PACKING GROUP:** NOT APPLICABLE

**ENVIRONMENTAL HAZARDS:** NOT DETERMINED

**TRANSPORT IN BULK (ACCORDING TO ANNEX II OF MARPOL 73/78):** – IBC CODE: NOT APPLICABLE

**Special Precautions (for User):** NOT APPLICABLE

**U.S. Surface Freight Classification:** FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6; CLASS 70)

**15. REGULATORY INFORMATION**

**CAUTION**

**NFPA & HMIS Hazard Ratings:**

NFPA

HMIS

1 Health

0 Least

1 Health

0 Flammability

1 Slight

0 Flammability

1 Instability

2 Moderate

1 Reactivity

3 High

B PPE

4 Severe

**SARA Hazard Notification/Reporting**

**SARA Title III Hazard Category:**

Immediate

Y

Fire

N

Sudden Release of Pressure

N

Delayed

N

Reactive

N

**Reportable Quantity (RQ) under U.S. CERCLA:** Phosphoric Acid (CAS: 7664-38-2) 5,000 lbs.; Potassium Hydroxide (CAS: 1310-58-3) 1,000 lbs.

**SARA, Title III, Section 313:** Not listed

**RCRA Waste Code:** Not listed

**CA Proposition 65: WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

**16. OTHER INFORMATION**

**MSDS STATUS:** New – GHS Version

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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