FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS, INC. **24-Hour Emergency Phone**: 1-800-424-9300

P.O. Box 1286 • Greeley, CO 80632-1286 **Medical Emergencies**: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: CARBOBOOST 2-15-15

CHEMICAL NAME: Inorganic/Organic Chemical Fertilizer Solution

CHEMICAL FAMILY: Plant Nutritional

MSDS Number: 1000174108-13-LPI MSDS Revisions: New Date of Issue: 09/12/13 Supersedes: New

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION – May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, or sores. In case of contact, flush with water. Get medical attention for eyes. This blended liquid fertilizer solution is derived from Low-biuret Urea, Phosphoric Acid, and Potassium Hydroxide. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer mists. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

This product is a clear liquid with little odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Total Nitrogen (N)	2.00		
(from Urea)		57-13-6	not listed
Available Phosphoric Acid (P ₂ O ₅)	15.00		_
(from Phosphoric Acid)		7664-38-2	1 mg/m ³
Soluble Potash (K ₂ O)	15.00		2
(from Potassium Hydroxide)		1310-58-3	C 2 mg/m ³
Fertilizer salts and inert ingredients	68.00		

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.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Does not flash. FLAMMABLE LIMITS (LFL & UFL): Not known.

EXTINGUISHING MEDIA: Use media appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: May release oxides of carbon, oxides of nitrogen, and hydrogen chloride in fire situation.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective gear. If heated to dryness, immediately ventilate the structure to prevent pressure build-up, which will increase the possibility of explosion.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product may burn if all water has evaporated or boiled away.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear appropriate personal protective equipment (refer to Section 8). Pick up the material with absorbent material and place in a container for proper disposal in accordance with local, state and federal regulations.

ENVIRONMENTAL PRECAUTIONS: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Wear protective eyewear and chemical resistant gloves. Wash thoroughly with soap and water after handling.

STORAGE: Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store at ambient temperatures.

Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well-ventilated area. Local exhaust may be required if working in confined space. **RESPIRATORY PROTECTION:** Wear a NIOSH approved air-purifying respirator for pesticide handling if necessary.

EYE PROTECTION: Chemical goggles or face-shield.

SKIN PROTECTION: Wear long sleeved shirt, long pants, shoes and socks.

OSHA PEL 8 hr TWA ACGIH TLV-TWA

Acid 1 mg/m³ 1 mg/m³

Phosphoric Acid 1 mg/m³ 1 mg/m³ Potassium Hydroxide not listed C 2 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid with little odor.

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

BULK DENSITY: 11.01 lbs/gal.

SOLUBILITY: Soluble ph: Not known

SPECIFIC GRAVITY (Water = 1): 1.319 g/ml
VAPOR PRESSURE: Not established
PERCENT VOLATILE (by volume): Not established
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 quaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Avoid excessive heat under confinement.

INCOMPATIBILITY: Not known

HAZARDOUS DECOMPOSITION PRODUCTS: May release oxides of carbon, oxides of nitrogen, and hydrogen chloride in fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): >5000 mg/kg
Eye Irritation (rabbit): May irritate eyes
Inhalation LC₅₀ (rat): Not established.

Acute Dermal LD₅₀ (rat): >2000 mg/kg
Skin Irritation (rabbit): May irritate skin
Skin Sensitization: Not a sensitizer.

Carcinogenic Potential: Not listed by OSHA, NTP, IARC, and ACGIH as a known human carcinogen

12. ECOLOGICAL INFORMATION

Do not contaminate water supplies.

13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Triple rinse (or equivalent), and add rinsate to spray tank, then offer for recycling at an ACRC site (go to http://www.acrecycle.org/ for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash waters or spray waste.

14 TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.

Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6; CLASS 70)

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA

Health

Flammability

Instability

Λ Least

Slight 2 Moderate High

Severe

HMIS

Health Flammability Reactivity 1

PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate Delayed

Fire Reactive

Sudden Release of Pressure

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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

16. OTHER INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.