

MATERIAL SAFETY DATA SHEET

PROSPECT®

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.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-866-944-8565
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: PROSPECT® 6-0-1
CHEMICAL NAME: Inorganic/Organic Chemical Fertilizer additive
CHEMICAL FAMILY: N-K Mixed liquid blended fertilizer additive
EPA REG. NO.: not applicable
MSDS Number: 7100813-10-LPI **MSDS Revisions:** Sections 1, 2, 3, and 4 **Date of Issue:** 07/02/10 **Supersedes:** 08/28/06

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION - May be harmful if swallowed, inhaled or absorbed through skin. May cause eye and skin irritation. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. Use with adequate ventilation. Eye protection and gloves are suggested when handling undiluted product. Wash thoroughly after handling. Contains ammonia. Contents may be under pressure. Use caution when opening.

This product is a clear dark green-colored liquid with slightly sweet non-offensive odor. Primary routes of entry are eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Total Nitrogen (N)	6.00	Mixture	none established
Soluble Potash (K ₂ O)	1.00	Mixture	none established
Boron (B)	0.02	Mixture	none established
Copper (Cu)	0.25	Mixture	none established
Iron (Fe)	0.25	Mixture	none established
Manganese (Mn)	0.25	Mixture	none established
Zinc (Zn)	5.00	Mixture	none established
Fertilizer salts and inert ingredients	87.23		

4. FIRST AID MEASURES

IF IN EYES: Immediately flush eyes with plenty of water. Continue flushing for 15 minutes and call a physician if irritation persists.
IF ON THE SKIN: Flush affected skin with water. Remove contaminated clothing. Launder clothing before reuse.
IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if indicated.
IF SWALLOWED: Drink plenty of water if conscious. Call a physician or poison control center immediately for advice on inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.

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 established
EXTINGUISHING MEDIA: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO₂), foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon and oxides of sulfur.
SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may burst due to pressure build-up of aqua ammonia.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Ventilate area. Contain spill, absorb liquid with clay or other absorbent material. Sweep up material and place in container for possible land application according to label use or for proper disposal. Check local, state and federal regulations for proper disposal.

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

7. HANDLING AND STORAGE

HANDLING: Open the container carefully. Contents may be under pressure and has a distinct odor of ammonia. Eye protection and gloves are suggested when handling undiluted product. Use with adequate ventilation. Wash thoroughly after handling.
STORAGE: Keep container tightly closed when not in use. A poorly closed container may adversely affect product quality and allow free ammonia to escape. Store in original container only, preferably in a locked area. Store in a cool dry place (above 45°F/7°C). Avoid freezing. If product freezes, allow it to warm and mix thoroughly before use. Do not use food or drink containers for mixing or storage. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required. If ammonia odor is too strong use local ventilation.
RESPIRATORY PROTECTION: Not normally required, if ammonia vapors are too strong wear a NIOSH approved respirator for anhydrous ammonia.
EYE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes plus socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Ammonia	35 mg/m ³	17 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear dark green-colored liquid with slightly sweet non-offensive odor	SOLUBILITY: Soluble
SPECIFIC GRAVITY (Water = 1): 1.19g/ml	BULK DENSITY: 9.92 lbs/gal.
VAPOR PRESSURE: Not established	BOILING POINT: 212°F/100°C
PERCENT VOLATILE (by volume): Not established	EVAPORATION RATE: 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 guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable **CONDITIONS TO AVOID:** Excessive heat. Keep containers tightly closed.
INCOMPATIBILITY: Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia, oxides of nitrogen and other unknown hazardous materials may be formed in a fire situation. Oxides of carbon formed from incomplete combustion.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): Ammonia: 350 mg/kg	Acute Dermal LD₅₀ (rabbit): not established
Eye Irritation (rabbit): Causes mild irritation	Skin Irritation (rabbit): Causes mild irritation
Inhalation LC₅₀ (rat): 2000 ppm (4 hr).	Skin Sensitization (guinea pig): Not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH	

12. ECOLOGICAL INFORMATION

Material is toxic to fish and other aquatic organisms.
 Do not contaminate water supplies.

13. DISPOSAL CONSIDERATIONS

Do not reuse container. **Container disposal:** Rinse thoroughly, adding rinsate to mix tank, then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or disposal in a sanitary landfill, or by incineration, or, if allowed State and local authorities by burning. If burned, stay out of smoke. If product cannot be used as intended, disposal should comply with Federal, State and local regulations. Avoid contaminating water by disposal of equipment wash waters or product wastes.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT
Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)
 Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">NFPA</td> <td style="width: 50%;">HMIS</td> </tr> <tr> <td>1 Health</td> <td>0 Least</td> </tr> <tr> <td>0 Flammability</td> <td>1 Slight</td> </tr> <tr> <td>1 Instability</td> <td>2 Moderate</td> </tr> <tr> <td></td> <td>3 High</td> </tr> <tr> <td></td> <td>4 Severe</td> </tr> </table>	NFPA	HMIS	1 Health	0 Least	0 Flammability	1 Slight	1 Instability	2 Moderate		3 High		4 Severe
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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: Ammonia (CAS: 7664-41-7) 100 pounds

SARA, Title III, Section 313: Ammonia (CAS: 7664-41-7)

RCRA Waste Code: Not listed

CA Proposition 65: Not listed

16. OTHER INFORMATION

MSDS STATUS: Sections 1, 2, 3, and 4

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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U.S Patent No. 4,352,688; 5,637,553

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