

**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:** BLENDMASTER®  
**CHEMICAL NAME:** Ammoniated Salts and Surfactant  
**CHEMICAL FAMILY:** Water Conditioner-Surfactant  
**CALIF. REG. NO.:** not applicable  
**WASH. REG. NO.:** not applicable  
**MSDS Number:** 8200009-12-LPI      **MSDS Revisions:** Sections 2 and 4      **Date of Issue:** 05/31/12      **Supersedes:** 07/08/10

**2. HAZARDS IDENTIFICATION SUMMARY**

**KEEP OUT OF REACH OF CHILDREN - WARNING** – May cause eye and skin irritation. Avoid contact with skin or clothing. Harmful if inhaled or absorbed through skin. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Avoid breathing spray mist.

This product is a yellow liquid with mild acidic odor.

**3. COMPOSITION, INFORMATION ON INGREDIENTS**

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Salts of polyacrylic, hydroxy carboxylic, Propionic acids, phosphate ester, Ammonium Sulfate and ethoxylated surfactants	50.00	Mixture	none established
Other Ingredients	50.00		

**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):** >212°F / >100°C  
**FLAMMABLE LIMITS (LFL & UFL):** Not established  
**EXTINGUISHING MEDIA:** Water fog, alcohol foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.  
**HAZARDOUS COMBUSTION PRODUCTS:** None known.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and full protective gear.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Use water spray to cool containers exposed to fire. Contain run-off by diking to prevent contamination of water supplies. Containers in fire may burst or explode from excessive heat. Stay well back from fire area.

**6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**  
Contain spill. Absorb liquids by covering with clay or other absorbent material and place in container for disposal. Flush area with water to remove trace residue. Contain runoff from residue flush and dispose of properly. Place in container 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:** Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities.  
**STORAGE:** Store in a cool, dry place. Store in original container. Keep tightly closed. Do not contaminate water, food or feed by storage or disposal.

**Personal Protective Equipment:** Applicators and other handlers should wear: long sleeved shirt and long pants, shoes plus socks, rubber gloves, and protective eyewear. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** Use adequate ventilation.  
**RESPIRATORY PROTECTION:** Respiratory protection is not normally required but if vapor levels are not acceptable, wear a MSHA/NIOSH approved respirator.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing. Wear impervious rubber or chemical-resistant gloves.

	<b>OSHA PEL 8 hr TWA</b>	<b>ACGIH TLV-TWA</b>
For product	not established	not established

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>APPEARANCE AND ODOR:</b> Yellow liquid with mild acidic odor.	<b>BULK DENSITY:</b> 9.09 lbs/gal.	<b>SOLUBILITY:</b> Emulsifies
<b>SPECIFIC GRAVITY (Water = 1):</b> 1.09 g/ml	<b>BOILING POINT:</b> Not established	<b>pH:</b> 4.7 (1% solution)
<b>VAPOR PRESSURE:</b> Not established	<b>EVAPORATION RATE:</b> Not established	
<b>PERCENT VOLATILE (by volume):</b> 3%		

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.

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**10. STABILITY AND REACTIVITY**

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**STABILITY:** Stable **CONDITIONS TO AVOID:** High alkaline conditions.  
**INCOMPATIBILITY:** Avoid contact with strong oxidizers.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

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**11. TOXICOLOGICAL INFORMATION**

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<b>Acute Oral LD<sub>50</sub> (rat):</b> >3870 - <5000 mg/kg	<b>Acute Dermal LD<sub>50</sub> (rabbit):</b> >2000 mg/kg
<b>Eye Irritation (rabbit):</b> Moderate irritant [EPA Category III]	<b>Skin Irritation (rabbit):</b> Mild or slight irritant [EPA Category IV]
<b>Inhalation LC<sub>50</sub> (rat):</b> >2.88 mg/L (4 HR)	<b>Skin Sensitization (guinea pig):</b> Not a sensitizer.
<b>Carcinogenic Potential:</b> None listed by OSHA, NTP, IARC, and ACGIH as a carcinogen	

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**12. ECOLOGICAL INFORMATION**

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Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

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**13. DISPOSAL CONSIDERATIONS**

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Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>. Do not contaminate water, food or feed by storage or disposal.

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**14. TRANSPORT INFORMATION**

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**DOT Shipping Description:** NOT REGULATED BY USDOT.  
**Freight Classification:** ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: LTL 60, TL 35)  
**Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.**

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>		<b>NFPA</b>		<b>HMIS</b>		
	1	Health	0	Least	1	Health
	1	Flammability	1	Slight	1	Flammability
	0	Instability	2	Moderate	0	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:** Not listed

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

**RCRA Waste Code:** Not listed

**CA Proposition 65:** Not listed

**16. OTHER INFORMATION**

**MSDS STATUS:** Sections 2 and 4 revised

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

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