

# MATERIAL SAFETY DATA SHEET

# ACTAMASTER® SPRAY ADJUVANT

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:** ACTAMASTER® SPRAY ADJUVANT  
**CHEMICAL NAME:** Ammonium Sulfate  
**CHEMICAL FAMILY:** Spray Adjuvant  
**WA REG. NO.:** 34704-50006  
**MSDS Number:** 8000510-10-LPI

**MSDS Revisions:** Sections 1 and 4

**Date of Issue:** 07/07/10

**Supersedes:** 10/03/08

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN - CAUTION.** May cause skin and eye irritation. Avoid contact with skin and eyes. May be harmful if swallowed or inhaled. Do not breathe spray mist.

This product is a clear, colorless solution with virtually no 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>
Ammonium Sulfate	34.00	7783-20-2	none established
Inert ingredients	66.00		

## 4. FIRST AID MEASURES

**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 in eyes:** Hold eye open and rinse slowly and gently with water for 15 – 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 – 20 minutes.

**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.

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

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** Does not flash; not applicable  
**FLAMMABLE LIMITS (LFL & UFL):** Not applicable  
**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, water spray or fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** May include but are not limited to oxides of nitrogen 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:** None known

## 6. ACCIDENTAL RELEASE MEASURES

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

Avoid breathing vapors and contact with liquid. Collect as much liquid as possible in a clean container for reuse or absorb and sweep up immediately and transfer to suitable containers for disposal. Flush spill area with water after clean up. 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:** Follow PPE recommendations in Section 8 and on product label. Use with adequate ventilation.  
**STORAGE:** Store in a cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Do not contaminate water, food or feed 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:** Not normally required, if vapors exceed acceptable levels, wear a NIOSH/ MSHA approved respirator.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes plus socks, and rubber or chemical-resistant gloves.

**Personal Protection Equipment:** **Applicators and other handlers must wear:** long-sleeved shirt and pants, shoes plus socks, rubber gloves, and protective eyewear. Respiratory protection is not normally required but if vapor levels are not acceptable, wear a MSHA/NIOSH approved respirator.

For product	<b>OSHA PEL 8 hr TWA</b> none established	<b>ACGIH TLV-TWA</b> none established
-------------	--	--

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b> Clear, colorless solution with virtually no odor	<b>SOLUBILITY:</b> Miscible
<b>SPECIFIC GRAVITY (Water = 1):</b> 1.20g/ml	<b>BULK DENSITY:</b> 10.01 lbs/gal.
<b>VAPOR PRESSURE:</b> Not established	<b>BOILING POINT:</b> 212°F/100°C
<b>PERCENT VOLATILE (by volume):</b> >60%	<b>EVAPORATION RATE:</b> <1

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  
**INCOMPATIBILITY:** None known.  
**CONDITIONS TO AVOID:** None known.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of nitrogen, oxides of sulfur, and other unknown hazardous materials may be formed in a fire situation.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral LD<sub>50</sub> (rat):</b> not established	<b>Acute Dermal LD<sub>50</sub> (rabbit):</b> not established
<b>Eye Irritation (rabbit):</b> May cause irritation	<b>Skin Irritation (rabbit):</b> May cause irritation
<b>Inhalation LC<sub>50</sub> (rat):</b> May cause respiratory tract irritation.	<b>Skin Sensitization (guinea pig):</b> not established
<b>Carcinogenic Potential:</b> None listed in OSHA, NTP, IARC or ACGIH	

**12. ECOLOGICAL INFORMATION**

Material is completely miscible in water. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters  
 Material is may be harmful to fish and other aquatic life.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse containers. Triple rinse (or equivalent) adding rinse water to spray tank. Offer container for recycling or dispose of container 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 a national recycling program. To contact your state and locale ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>. Do not contaminate water, food or feed storage or disposal.

**14. TRANSPORT INFORMATION**

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

**15. REGULATORY INFORMATION**

**NFPA & HMIS Hazard Ratings:**

NFPA		HMIS	
1	Health	0	Least
0	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>N</u>	Reactive	<u>N</u>		

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 1 and 4 revised.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

*®Actamaster is a registered trademark of Loveland Products, Inc.*

**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.