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:

	PRODUCTS, INC. 6 • Greeley, CO 80632-1286	24-Hour Emergency Phone: 1-800-424-9300 Medical Emergencies: 1-800-301-7976 U.S. Coast Guard National Response Center: 1-800-424-8802	
PRODUCT NAME: CHEMICAL NAME: CHEMICAL FAMILY: CA REG. NO.: WA REG. NO.:	QUAD 7 [™] SPRAY ADJUVANT Alcohol Ethoxylate and Ammonium Nitrate Adjuvant Not applicable Not applicable		
MSDS Number: 82005		Date of Issue: 07/20/10 Supersedes: 03/11/08	_

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear and chemical resistant gloves. Wash thoroughly with soap and water after handling. Primary routes of entry are eye contact and skin contact. Remove contaminated clothing and wash clothing before reuse.

This product is a clear, slightly viscous, light blue liquid with Ammonia-like odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS					
Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)		
Alcohol Ethoxylate and Ammonium Nitrate Other Ingredients	42.00 58.00	Mixture	Not established		
4. FIRST AID MEASURES					
If in eves: Flush with	plenty of water for 15 minutes and then	a det medical attention			

If in eyes:	Flush with plenty of water for 15 minutes, and then get medical attention.
If on skin or clothing:	Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation persists.
If swallowed:	Call a physician immediately. DO NOT induce vomiting, give fluids.
If inhaled:	Remove to fresh air. Apply artificial respiration if necessary.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water, using straight stream nozzles. Water is effective in desensitizing molten or contaminated nitrate. HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and/or carbon dioxide 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 explode if heated to dryness. Organic and oxidizing materials can sensitize dry ammonium nitrate to a readily explosive state. Can detonate if heated under confinement with high pressure.	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. Product may explode if heated to dryness. Organic and oxidizing materials can sensitize dry ammonium nitrate to a readily explosive state. Can detonate if heated under confinement with high
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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 a cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Do not contaminate water, food or feed by storage or disposal.

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. EVE PROTECTION. Chemical goggles or face-shield. SKIN PROTECTION: Wear long sleeved shirt, long pants, shoes and socks.

For product

OSHA PEL 8 hr TWA not listed

ACGIH TLV-TWA not listed

g PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear, slightly viscous, light blue liquid with Ammonia-like odor. SPECIFIC GRAVITY (Water = 1): 1.109 g/ml BULK DENSITY: 9.25 lbs/gal. VAPOR PRESSURE: 20°C @ 17.5 mm Hg BOILING POINT: Not established EVAPORATION RATE: < 1 (n-Butyl Acetate = 1) PERCENT VOLATILE (by volume): 46.4% These physical data are typical values based on material tested but may vary from sample to sample. Note:

SOLUBILITY: Miscible pH: 8.1 (1% solution)

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: Contact with strong oxidizing agents, bases, acids, aldehydes, ketones, acrylates, organic anhydrides, organic halides, powdered metals. Copper represents the greatest contamination hazard.

INCOMPATIBILITY: Strong oxidizing agents, bases, acids, aldehydes, ketones, acrylates, organic anhydrides, organic halides, powdered metals. Copper represents the greatest contamination hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia, oxides of nitrogen, and oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): 4630 mg/kg Eye Irritation (rabbit): Moderate eye irritant Inhalation LC₅₀ (rat): 4.73 mg/L. Carcinogenic Potential: Not listed by OSHA, NTP, IARC, and ACGIH as a known human carcinogen

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

12. ECOLOGICAL INFORMATION

May be toxic to fish and aquatic invertebrates.

13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Triple rinse (or equivalent), adding rinse water 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, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.

Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60)

MATERIAL SAFETY DATA SHEET

15. REGULATORY INFORMATION

			HMIS	
	2 Health1 Flammability0 Instability	0 Least 1 Slight 2 Moderate 3 High 4 Severe	 2 Health 1 Flammability 0 Reactivity H PPE 	
GARA Hazard Notification/Reporting GARA Title III Hazard Category:	Immediate Y Delayed N	Fire Reactive	N Sudden Release of Pressure <u>N</u>	
Reportable Quantity (RQ) under U.S SARA, Title III, Section 313: Not liste CRA Waste Code: Not listed CA Proposition 65: Not listed				

16. OTHER INFORMATION

MSDS STATUS: Section 1 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/Regulatory Services

TMQuad 7 is a trademark of Loveland Products, Inc.

U.S. Patent No. 5,658,855

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