

# SAFETY DATA SHEET



Date Issued : 2/13/2014

SDS No : CHEM-N

## CHEM-N

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CHEM-N  
**CHEMICAL FAMILY:** Fertilizer - Adjuvant  
**GENERIC NAME:** Urea Ammonium Nitrate Solution

**DISTRIBUTOR**

United Suppliers, INC.  
BOX 538  
Eldora, IA 50627  
**Customer Service:** 800-782-5123

**24 HR. EMERGENCY TELEPHONE NUMBERS**

ChemTrec 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Acute Toxicity (Oral), Category 5  
Skin Irritation, Category 3  
Eye Irritation, Category 2A

**GHS LABEL**

Exclamation  
mark

**SIGNAL WORD:** WARNING**HAZARD STATEMENTS**

H303: May be harmful if swallowed.  
H316: Causes mild skin irritation.  
H319: Causes serious eye irritation.

**PRECAUTIONARY STATEMENTS****Prevention:**

P264: Wash hands, face and other affected areas thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Causes moderate eye irritation.

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**SKIN:** May cause mild skin irritation.

**INGESTION:** Ingestion may irritate the digestive tract.

**CARCINOGENICITY:** Not Listed as a carcinogen by NTP, OSHA, or ACGIH standards.

**SENSITIZATION:** Not a skin sensitizer.

**COMMENTS HEALTH:** Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

**COMMENTS: KEEP OUT OF REACH OF CHILDREN.**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Ammonium Nitrate	37 - 41	6484-52-2
Urea	29 - 32	57-13-6

### 4. FIRST AID MEASURES

**EYES:** Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

**INHALATION:** 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.

**ADDITIONAL INFORMATION:** Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call **CHEMTREC 1-800-424-9300**.

### 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Toxic fumes may be emitted in a fire situation.

**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

**EXPLOSION HAZARDS:** No specific explosion hazards are identified or expected.

**FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**FIRE EXPLOSION:** No specific explosion hazards are identified or expected.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

**LARGE SPILL:** Dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not contaminate any body of water.

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**LAND SPILL:** Avoid runoff onto any adjacent land.

**SPECIAL PROTECTIVE EQUIPMENT:** Always wear proper protective equipment when handling this product.

## 7. HANDLING AND STORAGE

**HANDLING:** Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Do not store using brass, bronze, copper, zinc or alloys of these, contact with UAN solution causes corrosion; cast iron, malleable iron or ductile iron are much more susceptible to corrosion than aluminum or carbon steel. Pay extra close attention to plugs and fittings on storage tanks. If stored below freezing, thoroughly thaw and agitate before use, store above 0°F. Keep containers tightly closed. Store in original container. Do not allow water or other chemicals to be introduced into contents of container. Do not contaminate water sources with equipment wash water, spray disposal wastes or by cleaning of equipment. Do not store near feed or food products. Do not use or store near open flame.

**STORAGE TEMPERATURE:** (0°F) Minimum to (110 °F) Maximum

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

**SKIN:** Wear protective clothing: long-sleeved shirt and long pants, shoes plus socks and chemical-resistant gloves. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

**RESPIRATORY:** Work in a well ventilated area. Decomposition of UAN may produce oxides of nitrogen and ammonia; if it is necessary to enter a confined space monitor for ammonia vapors also wear proper protective equipment. Always follow the Confined Space Entry program.

**PROTECTIVE CLOTHING:** Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Mild Ammonia

**APPEARANCE:** Liquid

**COLOR:** Colorless

**pH:** 6.8 to 7.5

**PERCENT VOLATILE:** Not Established

**FLASH POINT AND METHOD:** > (200 °F)

**VAPOR PRESSURE:** 8.6 - 17.5mm Hg @ 100°F

**BOILING POINT:** > (212°F)

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** Not Established

**DENSITY:** 10.26-11.09 lbs/gal.

**SPECIFIC GRAVITY:** 1.23 to 1.33 g/mL

**COMMENTS:** 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

**STABLE:** Yes

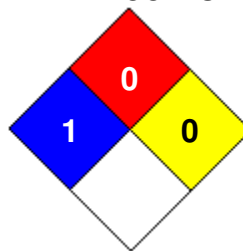
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**HAZARDOUS POLYMERIZATION:** No**POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None known.**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition of UAN may produce oxides of nitrogen and ammonia.**INCOMPATIBLE MATERIALS:** Do not mix with chlorine or hypochlorites. Refer to Storage in Section 7 for metal incompatibilities.**11. TOXICOLOGICAL INFORMATION****ACUTE****DERMAL LD<sub>50</sub>:** Not Established**ORAL LD<sub>50</sub>:** > 2000 mg/kg**INHALATION LC<sub>50</sub>:** Not Established**EYE EFFECTS:** May cause moderate eye irritation**SKIN EFFECTS:** May cause mild skin irritation.**CARCINOGENICITY****Notes:** Not listed in OSHA, NTP, IARC or ACGIH**SENSITIZATION:** Not a contact sensitizer**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** This product is considered to be practically non-toxic.**AQUATIC TOXICITY (ACUTE)****96-HOUR LC<sub>50</sub>:** 103 mg/L (Rainbow Trout)**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** Do not reuse product containers. Triple rinse (or equivalent), 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 local, state, and federal regulations.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PRIMARY HAZARD CLASS/DIVISION:** Not regulated by DOT**PLACARDS:** None**LABEL:** None**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No**313 REPORTABLE INGREDIENTS:** UAN contains ammonia and nitrate ions from ammonium nitrate which are subject to reporting requirements.**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** Not Listed**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Ammonium Nitrate	6484-52-2
Urea	57-13-6

**CALIFORNIA PROPOSITION 65:** Not Listed

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**16. OTHER INFORMATION****REASON FOR ISSUE:** New SDS Format**PREPARED BY:** Lighthouse Product Services, LLC**NFPA CODES****GENERAL STATEMENTS: DISCLAIMER OF LIABILITY**

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