

UAN-32

Urea Ammonium Nitrate Solution

GUARANTEED ANALYSIS: 32-0-0

TOTAL NITROGEN (N)	32.0%
7.75% Ammoniacal Nitrogen	
7.75% Nitrate Nitrogen	
16.50% Urea Nitrogen	

Derived from Ammonium Nitrate and Urea.

Warning: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986, requires notification of potential exposure to substances identified by the State of California as causing cancer, birth defects or other reproductive harm.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.regulatory-info-jr.com>

PHYSICAL CHARACTERISTICS

Specific Gravity @ 68°F:	1.327
Weight (lbs./gal.) @ 68°F:	11.06
Total Nitrogen (lbs./gal.):	3.54
Ammonic Nitrogen	0.86
Nitrate Nitrogen	0.86
Urea Nitrogen	1.82
Salting Out Temperature:	32°F
Solution pH:	6.8
Free Ammonia:	0.01%

CONSTRUCTION OF STORAGE & TRANSFER EQUIPMENT

1. Mild steel, stainless steel, aluminum and certain fiberglass materials are suitable. Copper and alloys containing copper (brass) should not be used.

COMPATIBILITY

1. Compatible with ammonium phosphate solutions such as 10-34-0, 11-37-0, 9-30-0, etc.
2. Compatible with potash solutions and combinations of potash and ammonium phosphate solutions.
3. Compatible with many herbicides. NOTE: Consult pesticide label or manufacturer before mixing UAN-32 with pesticide chemicals.

USES

1. A nonpressure solution—is well adapted for a wide range of application practices. Direct application in preplant plow-down programs, injecting or banding in the soil, or applied through various irrigation systems—sprinkler, drip, flood or furrow.
2. Is the preferred source of nitrogen in liquid blending plants and in combination with herbicides for "weed and feed" programs.

ADVANTAGES

1. Provides both fast acting and long lasting plant food from its three forms of nitrogen. Quick response from nitrate, longer lasting from ammoniacal and sustained feeding from the water soluble organic nitrogen in urea.
2. Enjoys great compatibility with other fertilizers and many chemicals. Makes possible two or more jobs in one trip over the field. Saves time, labor and money.
3. Is easy to store, handle and calibrate for accurate application in the field.
4. Is safe—being a nonpressure neutral solution, eliminates safety hazards associated with corrosive materials and high pressure systems.

SAFETY

Not generally considered toxic. Avoid contact with eyes and skin. In case of contact, thoroughly flush eyes and skin with water. 32-0-0 is not regulated by DOT.

PRECAUTIONS

1. Do NOT spray UAN-32 full strength on crops other than pastures.
2. Do NOT mix with aqua ammonia as the blend is very corrosive.

Material Safety Data Sheet
J. R. Simplot Company AgriBusiness

Trade Name: UAN-32
 Registration No: None

M11040A

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator:	J.R. Simplot Company P.O. Box 912 Pocatello, ID 83204	Product Name:	UAN-32
Emergency Phone - Chemtrec:	1-800-424-9300	Common Name:	Urea Ammonium Nitrate Solution 32-0-0, UN-32, Uran
		Chemical Type:	Carbamate & Salt

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous Non-hazardous	TLV	PEL
Ammonium Nitrate	6484-52-2	NH ₄ NO ₃	45.2	N.E.	Not available
Urea	57-13-6	CO(NH ₂) ₂	34.8	N.E.	Not available
Water	7732-18-5	H ₂ O	Balance	Not listed	Not available

SECTION 3 HAZARDS IDENTIFICATION

Ingestion: No hazard in normal industrial use. Ingestion of large amount may cause systemic ammonia poisoning and nitrate poisoning.
Inhalation: No hazard under normal conditions.
Eye Contact: May be aggravating to eyes.
Skin Absorption: Not absorbed through skin.
Skin Contact: May be aggravating to skin.
Effects of Overdose: Ingestion of large amounts may cause dizziness, abdominal cramps, vomiting, and diarrhea, discomfort to skin and eyes.

SECTION 4 FIRST AID MEASURES

Ingestion: For ingestion of large amounts, give 2-3 glasses of water and induce vomiting. Seek medical attention if condition persists.
Inhalation: If exposed to thermal decomposition gases, evacuate the person from area and, if necessary, give artificial resuscitation. Keep person at rest and call a physician.
Eyes: Flush eyes with fresh running water for 15 minutes. If condition persists, call a physician.
Skin: Wash skin with soap and water. Seek medical attention if condition persists.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Non-flammable liquid. Use media suitable to extinguish source of fire.
Special Fire Fighting Procedures: None in liquid state.
Unusual Fire and Explosion Hazards: None in liquid state. Organic and oxidizable materials can sensitize dry Ammonium Nitrate to a readily explodable state; can detonate if heated under confinement with high pressure.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Low toxicity for fish. Do not contaminate any waterway or any body of water by direct application, cleaning of equipment, or disposal.
Steps to be taken in case material is released or spilled: Dike area and maximize recovery. Pump into tank or absorb in diatomaceous earth. Sweep up and place into containers for recycle or disposal. Wash area with water. Prevent entry into sewer or watercourses.

SECTION 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing: Temperatures should be kept above 32°F to keep solution liquid and pumpable. Do not expose to fire. Store in a well ventilated area.
DO NOT ALLOW TO DRY.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: None required under normal conditions.
Protective Clothing: Normal work clothing and impervious gloves.
Eye Protection: Safety glasses with side shields or chemical splash-proof goggles.
Other: Eyewash fountain and safety shower in area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	252°F	Solubility in Water:	Complete
Specific Gravity:	1.280-1.327 @ 60°F	% Volatiles (by volume):	Not applicable
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	Not applicable
pH:	6.5 - 7	Reaction with Water:	None
Appearance:	Clear solution. Commonly dyed blue or green.	Extinguishing Media:	Water or media suitable to extinguish source of fire.

SECTION 10 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: High temperatures and fire conditions.
Incompatibility (Material to Avoid): Organic and easily oxidizable matter.
Hazardous Decomposition Products: Under extreme fire conditions, may liberate hazardous gases of oxides of nitrogen and ammonia.
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGY INFORMATION

Acute Oral Toxicity: LD₅₀ (rat) is greater than 2,000 mg/kg (ppm); not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425).
Acute Fish Toxicity: 96-hour LC₅₀ is greater than 103 mg/L (ppm); low acute toxicity to fish. (TFI Product Testing Results, OECD Guideline 203)

SECTION 12 ECOLOGICAL INFORMATION

None listed.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Pump into tank or absorb in diatomaceous earth product, sweep up and place into container for use or disposal. Follow local, state and federal regulations for disposal. Could be used as a fertilizer using good agronomic practices.

SECTION 14 TRANSPORT INFORMATION

Shipping name:	Not regulated by D.O.T	C.A.S. Number:	See "Ingredients"
Hazard Class:	None	D.O.T. Number:	None
Reportable Quantity (RQ):	None	Haz Waste No.:	None
Labels Required:	None	EPA Regist No.:	None
Placard:	None		

SECTION 15 REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes () No (X) by NTP?: Yes () No (X)
 This product contains ammonium nitrate solution which is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16 OTHER INFORMATION

Flash Point (Test Method):	Non-flammable	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A
MSDS Version Number:	4 (revisions to Section 11)			

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