

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

M11040

Trade Name: Nitrogen Solution, 32-0-0
Registration No: None

SECTION 1

CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
P.O. Box 70013
Boise, ID 83707

Product Name: Urea Ammonium Nitrate Solution 32-0-0, UAN-32, Uran, TRI-N-32

Common Name: Urea Ammonium Nitrate Solution 32-0-0, UAN-32, Uran, TRI-N-32

Chemical Type: Carbamate & Salt

Emergency Phone - Chemtrec: 1-800-424-9300

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

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

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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

	Oral LD50 (rat)	Dermal LD50 (rat)	Aquatic Fish 96-hour	Aquatic (other)
Ammonium Nitrate	1,480-1,770 mg/kg	> 5,000 mg/kg	95-102 mg/kg total NH ₃ /L	124.9 mg total NH ₃ /L (daphnia)
Urea	14,300 mg/kg	none listed	> 9,100 mg/L	> 10,000 mg/L (daphnia)

All toxicity data from TFI Product Testing Results.

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 CAS No. 6484-52-2, which may be 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 under the nitrate compound category.

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: 7 (revisions to Section 1 – combined MSDS for identical multiple products 11040, 11040A, 11040B, 11040C)

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Reviewed by: The Environmental Health & Safety Department
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