

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

M11038

Trade Name: ASN Solution
Registration No: None

SECTION 1

CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
P.O. Box 70013
Boise, ID 83707
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: ASN Solution
Common Name: Ammonium Sulfate Nitrate
Chemical Type: Inorganic Chemical Fertilizer

SECTION 2

HAZARDS IDENTIFICATION

Ingestion: Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems.
Inhalation: Vapors during processing may be an irritant to respiratory tract.
Eye Contact: Avoid contact with the eyes to prevent irritation.
Skin Absorption: Avoid contact with the skin to prevent irritation
Skin Contact: Prolonged or repeated contact to the skin may cause irritation.
Effects of Overdose: Ingestion of large doses may cause diarrhea, nausea, abdominal cramps, cyanosis or formation of methemoglobinemia. Seek medical attention.

SECTION 3

COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
Hazardous					
Non-Hazardous					
None					
This product is a homogenous fertilizer made up of the following non-hazardous ingredients:					
Ammonium Sulfate Nitrate		12398-89-9	NA	100%	

SECTION 4

FIRST AID MEASURES

Ingestion: If large amount is ingested, give 2-3 glasses of water and induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention if condition persists. If not breathing, give artificial respiration, seek medical attention.
Eyes: Flush eyes, also under eyelids, with running water for at least 15 minutes. Seek medical attention if condition persists.
Skin: Wash with water for at least 15 minutes. Take off contaminated clothing and shoes and wash before re-use. Seek medical attention if condition persists.
Notes to Physician: Consult standard literature; treat symptomatically. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media: Use media suitable to extinguish source of fire.
Special Fire Fighting Procedures: Product is not combustible. In the event product is involved in fire, do not breathe fumes. Use self-contained breathing apparatus and dust impervious protective suit.
Unusual Fire and Explosion Hazards: During extremely high temperature fire conditions, the product may reach boiling point and decompose to release NH₃, SO_x, PO_x or CN. Explosive reactions with oxidizing agents such as potassium chlorate and/or peroxides.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.
Steps to be taken in case material is released or spilled:
Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

SECTION 7

HANDLING AND STORAGE

Precautions to be taken in handling and storing:
Store in tightly closed containers in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Use in well ventilated areas. Keep out of the reach of children. Do not store in temperatures greater than 374°F (190°C).

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: Use a NIOSH approved ½ mask respirator when necessary with chemical cartridge.
Protective Clothing: Normal clean work clothing with rubber and/or chemical resistant gloves.
Eye Protection: Wear chemical goggles or face shield and safety glasses
Other: Wash hands before breaks and at the end of the workday. Remove and wash contaminated clothing before re-use.

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not established	Solubility in Water:	Soluble
Density:	10.60 lbs/gal	% Volatiles (by volume):	Not applicable
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	Not applicable
pH:	Not listed	Specific Gravity:	1.1- 1.3
Appearance:	Clear to light amber liquid with fertilizer-like odor		
Extinguishing Media:	Considered non-flammable		

SECTION 10

STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Extremely high temperatures.
Incompatibility (Material to Avoid): Oxidizing substances, chlorine, copper, copper-bearing materials, hypochlorite and zinc-clad materials.
Hazardous Decomposition Products: Urea may decompose to release cyanuric acid, ammonia, HCN, NO₃, SO_x, PO_x or CN.
Hazardous Polymerization: Will not occur

SECTION 11

TOXICOLOGY INFORMATION

	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rat)</u>	<u>Aquatic Fish 96-hour</u>	<u>Aquatic (other)</u>
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)
Inhalation 4 hour LC50:	> 88,800 mg/m ³			
Ammonium Sulfate	640-4,250 mg/kg	> 2,000 mg/kg	> 13.6-159.8 mg total NH ₃ /L	> 27.0 mg/total NH ₃ /L (daphnia)

All toxicity data from TFI Product Testing Results.

SECTION 12

ECOLOGICAL INFORMATION

None listed.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agricultural practices and soil management.

SECTION 14

TRANSPORT INFORMATION

Shipping name:	Not regulated by DOT	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)

SARA 302 Reportable Quantities: Not listed.

SARA 313 Components: Ammonium Nitrate 6484-52-2
Aqueous ammonia from all water-dissociable ammonium salts (except ammonium nitrate solution)

SARA 311/312 Hazards: Acute Health Hazard
Chronic Health Hazard

California Prop. 65: 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.

SECTION 16

OTHER INFORMATION

Flash Point (Test Method):	Non-flammable	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A

N.F.P.A. (National Fire Protection Association) Hazard Rating:
Health: 1 Flammability: 0 Reactivity: 0 Specific: None

MSDS Version Number: 2 (Revised section 2, 3, 5, 7,8 and 10)

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