

Safety Data Sheet According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: November 2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Name: Ammonium Nitrate Solution, 90% **Synonyms:** Liquid Ammonium Nitrate

Intended Use of the Product Not available

Name, Address, and Telephone of the Responsible Party

Company

LSB Chemical L.L.C. 4500 North West Ave. P.O. Box 231 El Dorado, AR 71731 T (870) 863-1400 - F (870) 863-1126 Emergency Telephone Number

Emergency number : (870) 863-1400, (800) 424-9300 (CHEMTREC, 24 hours)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US) Ox. Liq. 3 H272 Eye Irrit. 2A H319

Label Elements

GHS-US Labeling Hazard Pictograms (GHS-US)



Signal Word (GHS-US)	: Warning
Hazard Statements (GHS-US)	: H272 - May intensify fire; oxidizer
	H319 - Causes serious eye irritation
Precautionary Statements (GHS-US)	: P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking.
	P220 - Keep/Store away from combustible materials, clothing, incompatible materials.
	P221 - Take any precaution to avoid mixing with combustibles, organic material, clothing,
	incompatible materials.
	P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
	P280 - Wear protective gloves, protective clothing, eye protection, face protection,
	respiratory protection.
	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.
	P370+P378 - In case of fire: Use appropriate media for extinction.
	P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US) Not available

Version: 1.0

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

<u>Mixture</u>

Name	Product identifier	% (w/w)	Classification (GHS-US)
Ammonium nitrate	(CAS No) 6484-52-2	90	Ox. Sol. 3, H272
			Eye Irrit. 2A, H319
Water	(CAS No) 7732-18-5	10	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

Most Important Symptoms and Effects Both Acute and Delayed

General: Eye irritation.

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. Hot Ammonium Nitrate burns skin, allowing rapid absorption of Ammonium Nitrate through the skin and toxic effects can occur quite rapidly. Causes methemoglobenemia – emergency response should treat appropriately.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray.

Unsuitable Extinguishing Media: Dry chemical, carbon dioxide, or regular foam.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Will burn if exposed to heat, and in addition, will accelerate the burning of other combustibles, resulting in more rapid spread of fire. May intensify fire, oxidizer.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Reactivity: May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. **Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Nitrogen oxides. Toxic fumes are released. Ammonia.

Other information: Do not add water to molten material as this may cause spattering. Do not allow run-off from fire fighting to enter drains or water courses.

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Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing (vapors, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from combustible material.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE). **Emergency Procedures:** Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill. Do not take up in combustible material such as: saw dust or cellulosic material.

Reference to Other Sections

See section 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Smothering, contact with organic material, or combustible material may cause an explosive situation. Do not puncture or incinerate container.

Handling Temperature: Should be kept from 71.1°C-107.2°C (160-225°F) to be kept fluid and pumpable. Keep below 204.4°C (400°F), becomes unstable above this temperature.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. **Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from combustible materials, extremely high or low temperatures, direct sunlight, ignition sources, incompatible materials. Storage should be designed for the safe release of pressure. Floor drains and recesses should be plugged or eliminated to prevent entrapment of solution.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Halogens (F, Cl, Br, I). Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. Organic materials. Combustible materials. Storage Temperature: <204.4°C (400°F) (becomes unstable above this temperature)

Specific End Use(s) Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No additional information available

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

Personal Protective Equipment: Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection. Protective clothing.



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Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: Neoprene, nitrile or PVC gloves and protective clothing recommended.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	Clear
Odor	:	Trace odor of ammonia odor
Odor Threshold	:	Not available
рН	:	5.5
Relative Evaporation Rate (butylacetate=1)	:	Not available
Melting Point	:	70-80.6°C (158-177°F)
Freezing Point	:	Not available
Boiling Point	:	132.8-137.8°C (271-280°F)
Flash Point	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20 °C	:	Not available
Relative Density	:	~1.4@100°C (212°F)
Specific Gravity	:	Not available
Solubility	:	Complete.
Viscosity	:	Not available
Explosion Data – Sensitivity to Mechanical Impact	:	Not available
Explosion Data – Sensitivity to Static Discharge	:	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Chemical Stability: May intensify fire; oxidizer.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame. Combustible materials. Sources of ignition. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Halogens. Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. Organic materials. Combustible materials.

Hazardous Decomposition Products: Nitrogen oxides. Toxic vapors. Ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified pH: 5.5

Serious Eye Damage/Irritation: Causes serious eye irritation. pH: 5.5

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Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Teratogenicity: Not classified Carcinogenicity: Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified Reproductive Toxicity: Not classified Specific Target Organ Toxicity (Single Exposure): Not classified Aspiration Hazard: Not classified Symptoms/Injuries After Inhalation: May cause respiratory irritation. Symptoms/Injuries After Inhalation: May cause senious eye irritation. Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Information on Toxicological Effects - Ingredient(s) LD50 oral Rat > 90000 mg/kg Ammonium nitrate (6484-52-2) LD50 Oral Rat 2217 mg/kg LC50 Inhalation Rat (mg/l) > 88.8 mg/l/4h
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Toxicity Not classified
Persistence and Degradability
Liquid Ammonium Nitrate 90%
Persistence and Degradability Not established.
Bioaccumulative Potential
Liquid Ammonium Nitrate 90%
Bioaccumulative Potential Not established.
Ammonium nitrate (6484-52-2)
BCF fish 1 (no bioaccumulation expected)
Log Pow -3.1 (at 25 °C)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Clean up even minor leaks or spills if possible without unnecessary risk.

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SECTION 14: TRANSPORT IN	IFORMATION
14.1 In Accordance with DOT	
	AMMONIUM NITRATE, LIQUID (hot concentrated solution)
	: 5.1
	UN2426
Label Codes	5.1
ERG Number	: 140
14.2 In Accordance with IMDG	ì
Proper Shipping Name	AMMONIUM NITRATE, LIQUID (hot concentrated solution)
	: 5.1
Identification Number	: UN2426
Label Codes	: 5.1
EmS-No. (Fire)	: F-H <
EmS-No. (Spillage)	: S-Q
14.3 In Accordance with IATA	
Proper Shipping Name	AMMONIUM NITRATE, LIQUID (hot concentrated solution)
Identification Number	: UN2426
Hazard Class	:5
Label Codes	: 5.1
ERG Code (IATA)	: 5L
14.4 In Accordance with TDG	
Proper Shipping Name	AMMONIUM NITRATE, LIQUID (hot concentrated solution)
Hazard Class	: 5.1
	: UN2426
Label Codes	5.1

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Liquid Ammonium Nitrate 90%

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard Reactive hazard

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ammonium nitrate (6484-52-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Ammonium nitrate (6484-52-2)

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)

U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

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U.S Texas - Effects Scree			
U.S Texas - Effects Screening Levels - Short Term			
Canadian Regulations			
Liquid Ammonium Nitrate	e 90%		
WHMIS Classification	Class C - Oxidizing Material		
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Water (7732-18-5)			
· · ·	L (Domestic Substances List) inventory.		
· · ·	L (Domestic Substances List) inventory. Uncontrolled product according to WHMIS classification criteria		
Listed on the Canadian DS	Uncontrolled product according to WHMIS classification criteria		
Listed on the Canadian DS WHMIS Classification Ammonium nitrate (6484	Uncontrolled product according to WHMIS classification criteria		
Listed on the Canadian DS WHMIS Classification Ammonium nitrate (6484	Uncontrolled product according to WHMIS classification criteria -52-2)		

contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Revision date

: November 2017

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

us eye damage/eye irritation Category 2A
zing liquids Category 3
zing solids Category 3
ntensify fire; oxidizer
es serious eye irritation
ise or continued exposure could cause temporary tation or possible residual injury unless prompt attention is given.
erials that will not burn.
ble of detonation or explosive reaction, but a strong initiating source or must be heated under ment before initiation, or reacts explosively with
s denotes an oxidizer, a chemical which can greatly the rate of combustion/fire.

LSB Chemical L.L.C. P.O. Box 231 El Dorado, AR 71731 (870) 863-1400

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS