

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

Revision Date: July 2018

Version: 1.0

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

Product Identifier Product Name: Blended Fertilizer; Ammonium Nitrate 70% or Greater Intended Use of the Product : Fertilizer Name, Address, and Telephone of the Responsible Party Company

LSB Chemical L.L.C. 100 Lewis St, Elkhart, TX 75839 T (903) 764-2299 Emergency Telephone Number Emergency number : (800) 424-9300 (CHEMTREC, 24 hours)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or MixtureClassification (GHS-US)Oxidizing Solid Category 3H272

Acute Toxicity Oral Category 5	H303
Skin Irritant Category 2	H315
Eye Irritant Category 2A	H319
STOT SE Category 3	H335

Label Elements

GHS-US Labeling Hazard Pictograms (GHS-US)



Signal Word (GHS-US)	:	WARNING
Hazard Statements (GHS-US)	:	H272 - May intensify fire; oxidizer H303 - May be harmful if swallowed. H315 – Causes skin irritation. H319 - Causes serious eye irritation. H 335 - May cause respiratory 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. P261 - Avoid breathing dust. P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P280 - Wear protective gloves. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

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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

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	>70	Ox. Sol. 3, H272
			Eye Irrit. 2A, H319
Diammonium Phosphate (DAP)	(CAS No) 7783-28-0	Variable	Acute Tox. 5 (oral) H302
Potassium Chloride (Potash)	(CAS No) 7447-40-7	Variable	Skin Irritant 2 H315
			Eye Irritant 2B H320
			STOT SE 3 H335

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.

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: May intensify fire; oxidizer. Will burn if mixed or contaminated with combustible materials and exposed to heat. In addition, will accelerate the burning of other combustibles, resulting in more rapid spread of fire. Will not spontaneously combust. However, spontaneous ignition at moderately elevated temperatures may occur when contaminated with oxidizable materials such as oil, diesel fuel, wood, seed, charcoal, sulphur, finely divided metals or other combustible substances.

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

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. If structure containing Ammonium Nitrate is fully engulfed in flames, DO NOT fight fire. Evacuate surrounding area for at least ½ mile radius.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products**: Nitrogen oxides. Toxic fumes are released. Carbon oxides (CO, CO₂). Ammonia. Chlorine. **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. Never seal off or close building doors or compartments when fire occurs.

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 (dust). Do not get in eyes, on skin, or on clothing. Keep away from combustible material. Avoid generating dust.

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. NO SMOKING near this material. 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. Floor drains and recesses should be plugged or eliminated to prevent entrapment of solution in the event of a fire. Refer to National Fire Protection Association (NFPA) Code 400, Chapter 11 for recommended best practices.

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.

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Specific End Use(s) For agricultural use only.

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.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles when direct eye contact is possible.

Skin and Body Protection: Not available

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	:	Solid
Appearance	:	White and tan-black granules
Odor	:	Trace odor of ammonia.
Odor Threshold	:	Not available
рН	:	Not available
Relative Evaporation Rate	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	Not available
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	:	Not available
Specific Gravity	:	Not avialable
Solubility	:	Soluble in water.
Viscosity	:	Not available
Volatility	:	0%
Explosion Data – Sensitivity to Mechanical Impact	:	Not available
Explosion Data – Sensitivity to Static Discharge	:	Not available

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SECTION 10: STABILITY AND REACTIVITY

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

Chemical Stability: May intensify fire; oxidizer. Ammonium Nitrate starts to dissociate and decompose at temperatures above 210°C (410°F). Upon decomposition, ammonium nitrate emits nitrogen oxides and water vapor and may explode if confined. **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.

Hazardous Decomposition Products: Carbon oxides (CO, CO2). Nitrogen oxides. Toxic vapors. Ammonia. Phosphorus oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

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 Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Ammonium Nitrate (6484-52-2)		
LD50 Oral Rat	2217 mg/kg	
LC50 Inhalation Rat (mg/l)	> 88.8 mg/l/4h	
LD50 Dermal	>5000mg/kg	
Diammonium Phosphate (7783-28-0)		
LD50 Oral Rat	2000 mg/kg	
Potassium Chloride (7447-40-7)		
LD50 Oral Rat 1500-2600 mg/kg		
SECTION 12: ECOLOGICAL INFORMATION		

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Toxicity Not classified

Persistence and Degradability

Blended Fertilizer; Ammonium Nitrate 70% or Greater		
Persistence and Degradability	Not established.	

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Bioaccumulative Potential		
Blended Fertilizer; Ammonium Nitrat	2 70% or Greater	
Bio-accumulative Potential	Not established.	

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment. Ammonium Nitrate is a plant nutrient. However, large spills may kill vegetation and fish and cause algae blooms if waterways are contaminated.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. Spilled dry material or water solutions can be distributed on land as fertilizer. **Additional Information:** Clean up even minor leaks or spills if possible without unnecessary risk.

SECTION 14: TRANSPORT INFORMATION			
14.1 In Accordance with DOT			
Proper Shipping Name	: AMMONIUM NITRATE BA	ASED FERTILIZER	
Hazard Class	: 5.1		
Identification Number	: UN2067		
Label Codes	: 5.1	5.1	
Packing Group	: 111		
ERG Number	: 140		
14.2 In Accordance with IN	1DG		
Proper Shipping Name	: AMMONIUM NITRATE BA	ASED FERTILIZER	
Hazard Class	: 5.1		
Identification Number	: UN2067		
Packing Group	: 111		
Label Codes	: 5.1		
EmS-No. (Fire)	: F-H		
EmS-No. (Spillage)	: S-Q	5.1	
14.3 In Accordance with IA	ТА		
Proper Shipping Name	: AMMONIUM NITRATE BA	ASED FERTILIZER	
Packing Group	: 111		
Identification Number	: UN2067	A	
Hazard Class	: 5		
Label Codes	: 5.1	5.1	
ERG Code (IATA)	: 5L		
14.4 In Accordance with TD	DG		
Proper Shipping Name	: AMMONIUM NITRATE BA	ASED FERTILIZER.	
Packing Group	: 111		
Hazard Class	: 5.1		
Identification Number	: UN2067		
Label Codes	: 5.1	51	
SECTION 15: REGULATOR	RY INFORMATION		
US Federal Regulations			
Ammonium Nitrate Prill			
SARA Section 311/312 Hazard	l Classes	Immediate (acute) health hazard	
		Reactive hazard	

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Ammonium Nitrate (6484-52-2)

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

Diammonium Phosphate (7783-28-0)

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

Potassium Chloride (7447-40-7)

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
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

Canadian Regulations

Ammonium Nitrate Prill		
WHMIS Classification	Class C - Oxidizing Material	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Ammonium Nitrate (6484	I-52-2)	
Listed on the Canadian DS	L (Domestic Substances List) inventory.	
WHMIS Classification	Class C - Oxidizing Material	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Diammonium Phosphate	(7783-28-0)	
Listed on the Canadian DS	L (Domestic Substances List) inventory.	
Potassium Chloride (7447	-40-7)	
Listed on the Canadian DS	L (Domostic Substances List) inventory	

Listed on the Canadian DSL (Domestic Substances List) inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION		
Revision date	: July 2018	
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA	
	Hazard Communication Standard 29 CFR 1910.1200.	

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GHS Full Text Phrases:

Oxidizing Solid Category 3	May intensify fire; oxidizer; H272
Acute Toxicity Oral Category 5	May be harmful if swallowed; H303
Skin Irritant Category 2	Causes skin irritation; H315
Eye Irritant Category 2A	Causes serious eye irritation; H319
STOT SE Category 3	May cause respiratory irritation; H335

NFPA Health Hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA Fire Hazard	: 0 - Materials that will not burn.
NFPA Reactivity	 3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation, or reacts explosively with water.
NFPA Specific Hazard	: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.

Party Responsible for the Preparation of This Document

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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