

**SAFETY DATA SHEET**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations and According to The Hazardous Products Regulation (February 11, 2015) and their amendments.

High Density Ammonium Nitrate Prill

SDS Number: LSB-AN34-NA-EN

Section 1: IDENTIFICATION

Product Name:	High Density Ammonium Nitrate Prill
Synonyms:	HDAN.
Product Use:	Agricultural use.
Restrictions on Use:	Not available.
Manufacturer/Supplier:	LSB Chemical, LLC 3503 NW 63rd Street Suite 500 Oklahoma, OK 73116
Website:	www.lsbindustries.com
Email:	lsbproductsupport@lsbindustries.com
Phone Number:	(405) 235-4546
Emergency Phone:	24 Hour Emergency Telephone Number: 1-800-424-9300 (CHEMTREC)
Date of Preparation of SDS:	January 15, 2026

Section 2: HAZARD(S) IDENTIFICATION**GHS INFORMATION**

Classification: Oxidizing Solids, Category 3
Eye Irritation, Category 2A

LABEL ELEMENTS

**Hazard
Pictogram(s):**



Signal Word: Warning

**Hazard
Statements:** H272: May intensify fire; oxidizer.
H319: Causes serious eye irritation.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep away from clothing and other combustible materials.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye protection.

Response: 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 attention.

P370 + P378: In case of fire use: Use water.

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Storage: Not applicable.**Disposal:** P501: Dispose of contents and container in accordance with applicable regional, national and local laws and regulations.**Hazards Not Otherwise Classified:** Not applicable.**Ingredients with Unknown Toxicity:** None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Nitric acid ammonium salt (1:1)	Ammonium nitrate	6484-52-2	98 - 100
Nitric acid, magnesium salt (2:1)	Magnesium nitrate	10377-60-3	0.05 - 0.7

Section 4: FIRST-AID MEASURES**Inhalation:** If inhaled: Call a poison center or doctor if you feel unwell.**Acute and delayed symptoms and effects:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.**Eye Contact:** If in eyes: Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.**Acute and delayed symptoms and effects:** Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.**Skin Contact:** If on skin: Remove contaminated clothing. Wash with plenty of water. Seek medical attention if irritation develops or persists.**Acute and delayed symptoms and effects:** May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.**Ingestion:** If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.**Acute and delayed symptoms and effects:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

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Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE-FIGHTING MEASURES**FLAMMABILITY AND EXPLOSION INFORMATION**

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, sulfur, finely divided metals, or other combustible substances. Containers may explode when heated. Runoff may create fire or explosion hazard.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. **ALWAYS** stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.

Sensitivity to Static Discharge: This material is not sensitive to static discharge.

MEANS OF EXTINCTION

Suitable Extinguishing Media: Small Fire: Use water.

Large Fire: Flood fire area with water from a distance. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media: Do not use dry chemicals or foams. CO₂ or Halon® may provide limited control.

Products of Combustion: Oxides of nitrogen.

Protection of Firefighters: Do not fight fire beyond the incipient stage. Inhalation, ingestion or contact (skin, eyes) with vapors or substance may cause severe injury, burns or death. If structure containing Ammonium Nitrate is fully engulfed in flames, DO NOT fight fire. Evacuate surrounding area for at least 800 meters (1/2 mile) radius. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing will only provide limited protection.

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Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Keep combustibles (wood, paper, oil, etc.) away from spilled material.
Personal Precautions:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.
Environmental Precautions:	Keep out of sewers and public water ways.
Methods for Containment:	Stop leak if you can do it without risk. Do not get water inside containers. Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Use only non-sparking tools.
Methods for Clean-Up:	Clean up spills immediately and dispose of waste safely. Sweep up and shovel into suitable containers for disposal. Contact competent authorities after a spill.
Other Information:	See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE**Handling:**

Do not swallow. Do not breathe dust. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Keep only in original packaging. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. See Section 8 for information on Personal Protective Equipment.

Storage:

Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. Store in a dry, cool and well-ventilated place. Keep in fireproof place. Keep container closed when not in use. 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. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Additional Hazards When Processed:

When heated to decomposition, emits toxic fumes. Confinement, smothering, contact with organic material, or combustible material may cause an explosive situation. Do not puncture or incinerate container. May cause or intensify fire; oxidizer. NO SMOKING near this material.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines
Component**

Ammonium nitrate [CAS No. 6484-52-2]

ACGIH: 10 mg/m³ (TWA) (Inhalable.); 3 mg/m³ (TWA) (Respirable.); For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified

OSHA: 15 mg/m³ (Total dust) (TWA), 5 mg/m³ (Respirable fraction) (TWA); For Particulates Not Otherwise Regulated (PNOR).

Magnesium nitrate [CAS No. 10377-60-3]

ACGIH: 10 mg/m³ (TWA) (Inhalable.); 3 mg/m³ (TWA) (Respirable.); For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified

OSHA: 15 mg/m³ (Total dust) (TWA), 5 mg/m³ (Respirable fraction) (TWA); For Particulates Not Otherwise Regulated (PNOR).

TWA: Time-Weighted Average

Engineering Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)**Eye/Face Protection:**

Wear chemical safety goggles. Indirect vented, dust-tight goggles are required if dust is generated when handling this product. Ensure that eyewash stations are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3:20 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection:

Wear protective gloves. Consult manufacturer specifications for further information.

Skin and Body Protection:

Wear protective clothing. Wear chemically resistant materials and fabrics. Flame resistant clothing that meets the NFPA 2112 and CAN/CGSB 155.20-2017 standards is recommended in areas where material is stored or handled.

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Respiratory Protection: If engineering controls and ventilation are not sufficient to control dust exposure wear respiratory protection.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to off-white prills.
Color:	Colorless to off-white.
Odor:	Trace odor of ammonia.
Odor Threshold:	Not available.
Physical State:	Solid.
pH (10% solution):	5.5 to 6.5
Melting Point / Freezing Point:	169.9 °C (337.82 °F)
Initial Boiling Point:	Not available.
Boiling Range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	May intensify fire; oxidizer. Will burn if mixed or contaminated with combustible materials and exposed to heat. See Section 5.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Relative Vapor Density:	Not available.
Relative Density:	1.72 (Water = 1) at 21.1 °C (70 °F)
Solubility:	Soluble in water.
Partition Coefficient: n-Octanol/Water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	> 210 °C (410 °F)
Kinematic Viscosity:	Not available.
Percent Volatile, wt. %:	0

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VOC content, wt. %: Not available.**Density:** 60 lb/ft³**Coefficient of Water/Oil Distribution:** Not available.**Particle Characteristics:** Not available.**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. Oxidizer: increases the burning rate of combustible materials.

Chemical Stability: Stable under normal storage conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to heat.

Incompatible Materials: Strong acids. Strong bases. Strong reducers. Halogens. Metals. Combustible materials. Metallic powders. Chlorine compounds. Hydrogen peroxide.

Hazardous Decomposition Products: Ammonia. Nitric acid. Oxides of nitrogen.

Section 11: TOXICOLOGICAL INFORMATION**EFFECTS OF ACUTE EXPOSURE****Product Toxicity**

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

Component Toxicity

Component	CAS No.	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀
Ammonium nitrate	6484-52-2	2217 mg/kg (rat)	Not available.	Not available.
Magnesium nitrate	10377-60-3	Not available.	Not available.	Not available.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood.

Symptoms (including delayed and immediate effects)

Inhalation: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

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Eye: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Not available.

Aggravated By Exposure:

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens above reportable thresholds as listed by ACGIH, IARC, OSHA, or NTP.

Mutagenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects

Teratogenicity: Not available.

Embryotoxicity: Not available.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: **Ammonium nitrate (CAS no. 6484-52-2)**
Fish: LC50 Fish = 542 mg/L;
Daphnia: EC50 = 555 mg/L.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: log Pow = -3.1 at 25 °C (77 °F)

Mobility in Environment: Not available.

Other Adverse Effects: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

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Section 14: TRANSPORT INFORMATION**U.S. Department of Transportation (DOT)**

Proper Shipping Name: UN1942, AMMONIUM NITRATE, 5.1, PG III

Class: 5.1

UN Number: UN1942

Packing Group: III

Placard(s):



ERG Guide: 140

Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: UN1942, AMMONIUM NITRATE, 5.1, PG III

Class: 5.1

UN Number: UN1942

Packing Group: III

Placard(s):



ERG Guide: 140

Section 15: REGULATORY INFORMATION**Chemical Inventories****US (TSCA)**

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations**United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

No components are listed.

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State Regulations**Massachusetts**

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component

Ammonium nitrate
Magnesium nitrate

CAS No.

6484-52-2
10377-60-3

RTK List

Listed.
Listed.

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component

Ammonium nitrate
Magnesium nitrate

CAS No.

6484-52-2
10377-60-3

RTK List

SHHS
Listed.

Note: SHHS = Special Health Hazard Substance

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component

Ammonium nitrate
Magnesium nitrate

CAS No.

6484-52-2
10377-60-3

RTK List

E
Listed.

Note: E = Environmental Hazard

California

California Prop 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16: OTHER INFORMATION**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Any party handling, transferring, transporting, storing, applying or otherwise using this product should review thoroughly all applicable laws, rules, regulations, standards and good engineering practices. Such thorough review should occur before the party handles, transfers, transports, stores, applies or otherwise uses this product.

Date of Preparation of SDS: January 15, 2026

Version: 1.1

GHS SDS Prepared by: Aegis Regulatory Inc.

Phone: 1 (519) 488-0351

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