

EL DORADO CHEMICAL COMPANY

MATERIAL SAFETY DATA SHEET AMMONIUM NITRATE PRILL

MSDS NO.: ELDOR-7

PAGE 1 OF 6

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION.

EL DORADO CHEMICAL COMPANY

4500 North West Ave.

P. O. Box 231

El Dorado, AR 71731

Ammonium Nitrate

Information Telephone: (870) 863-1498

Emergency Telephone: (870) 863-1400

Hours of Operation: 24 hours

Fax: (870) 863-1499

Chemtrec: (800) 424-9300

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS.

COMPOSITION:

Ammonium Nitrate	Formula: NH_4NO_3	98-100% by weight
Water		0.05-0.5% by weight
Conditioning Agent(s)		0.05-0.7% by weight

HAZARDOUS INGREDIENTS:

Ammonium Nitrate	CAS# 6484-52-2	98-100% by weight
------------------	----------------	-------------------

SECTION 3: HAZARDS IDENTIFICATION.

EMERGENCY OVERVIEW:

Off-white spherical prills.

DANGER: Strong Oxidizer

Contact with other combustible materials may cause fire.

Explosive if mixed with organic matter or finely divided metals.

Unstable under high temperature.

WARNING: Overexposure can cause skin rash.

POTENTIAL HEALTH HAZARDS:

EYE:

Can cause irritation with discomfort or blurred vision.

SKIN:

May cause irritation with discomfort or rash.

INGESTION:

Causes abdominal spasms, nausea, and pain.

INHALATION:

Irritating to mucous membranes. May cause lung congestion.

AMMONIUM NITRATE PRILL

MSDS NO.: ELDOR-7

PAGE 2 OF 6

SECTION 4: FIRST AID MEASURES.

EYE:

Immediately flush with water for at least 15 minutes. Contact a physician immediately.

SKIN:

Flush skin with large amounts of water. Remove contaminated clothing.

INGESTION:

Give large amount of water. Induce vomiting with caution. Never give anything by mouth to an unconscious or convulsing person. Contact a physician.

INHALATION:

Remove to fresh air. Contact a physician. Observe for delayed effects.

SECTION 5: FIRE FIGHTING MEASURES.

FLAMMABLE PROPERTIES:

Ammonium nitrate is a strong oxidizing agent and will support combustion in the absence of oxygen. Spontaneous ignition at moderately elevated temperatures can occur when ammonium nitrate is mixed with oxidizable materials such as wood, charcoal, sulfur, finely divided metals and organics. If confined and ignition occurs, an explosion may occur.

EXTINGUISHING MEDIA:

Flood with water. Do not use CO₂, dry chemicals, or foam. Ammonium nitrate releases oxides when heated and smothering will not extinguish ammonium nitrate fires.

FIRE AND EXPLOSION HAZARDS:

Can ignite explosively when in contact with other oxidizable materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion will release ammonia and oxides of nitrogen.

FIRE FIGHTING EQUIPMENT:

Fire fighters should wear proper protective equipment and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

Keep combustibles (wood, paper, oil, etc.) away from spilled material. Contain spill. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water. Nitrate contaminated with any combustible material may present a fire and explosion hazard. Dilute contaminated ammonium nitrate with water to 50% or more. Use appropriate personal protection. Notify authorities.

AMMONIUM NITRATE PRILL

MSDS NO.:ELDOR-7

PAGE 3 OF 6

SECTION 7: HANDLING AND STORAGE.

HANDLING:

- Do not mix with organic material.
- Keep away from heat, sparks and flame.
- No smoking near this material.
- Do not get in eyes, on skin or clothing.
- Do not ingest.
- Do not inhale dust.
- Handle only in areas with sufficient ventilation to avoid inhalation of dust or wear a respirator.
- Sweep up and dispose of all spilled material promptly.
- Wash thoroughly after handling.
- Remove and wash contaminated clothing promptly.

STORAGE:

- Avoid contamination.
- Store in cool ventilated area away from fire hazards.
- Keep separate from other chemicals and combustible materials.
- Stored ammonium nitrate is subject to local regulations. Refer to applicable fire and building codes.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

RESPIRATORY PROTECTION:

None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask. Refer to the OSHA Respirator Standard 29 CFR 1910.134 for proper selection and use of personal respirators.

SKIN PROTECTION:

Wear long sleeved clothing and protective gloves to prevent prolonged or repeated skin contact. Refer to OSHA General Requirements for Personal Protective Equipment 29 CFR 1910.132.

EYE PROTECTION:

Wear chemical safety goggles and provide eye wash stations when direct eye contact is likely. Refer to OSHA Requirements for Eye and Face Protection 29 CFR 1910.133.

EXPOSURE GUIDELINES:

OSHA and ACGIH have not established exposure limits for ammonium nitrate. However, OSHA and ACGIH have established limits for nuisance dusts (particulates not otherwise specified - PNOC).

	OSHA-PEL 8 hr TWA		ACGIH-TLV 8 hr TWA
Total Dust:	15mg/m ³	Inhalable Dust:	10mg/m ³
Respirable Dust:	5mg/m ³	Respirable Dust:	3mg/m ³

Exposures to ammonium nitrate should be kept below these limits.

AMMONIUM NITRATE PRILL

MSDS NO.: ELDOR-7

PAGE 4 OF 6

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

Appearance: Colorless to off-white prills
Odor: Trace of ammonia odor
pH: Not Applicable
Flashpoint: Not Applicable
% Solids: 100%
% Volatiles: 0%
Solubility: Very soluble in water
Melting Point: 169 deg C
Decomposition Temperature: 210 deg C
Vapor Density: Not applicable
Vapor Pressure: Not applicable

SECTION 10: STABILITY AND REACTIVITY.

STABILITY:

Ammonium nitrate is unstable under high temperature and near open flames, organic materials or explosives.

INCOMPATIBILITY:

Organic materials, metal powders, flammable liquids, explosives and any ignition source.

HAZARDOUS DECOMPOSITION PRODUCTS:

Ammonia, oxides of nitrogen.

HAZARDOUS POLYMERIZATION:

Does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION.

ACUTE:

Oral LD-50 (rat): 5300 mg/kg
practically non-toxic
Dermal LD-50 (rabbit): 7940 mg/kg
practically non-toxic
Eye Irritation (rabbit): FHSA Score=9.4 (scale of 110)
slightly irritating
Dermal Irritation (rabbit): FHSA Score=2.8 (scale of 8.0)
slightly irritating

Can cause eye and skin irritation and possible chemical burns. Inhalation of dust may cause severe lung congestion and delayed reactions resulting in pulmonary edema and chemical pneumonitis. Ingestion of large doses may cause systemic acidosis and methemoglobinemia.

CHRONIC:

Prolonged and repeated exposure may cause skin dermatitis, kidney damage and conjunctivitis. Exposure may aggravate pre-existing dermatitis and kidney and lung conditions. Ammonium nitrate is not classified as a carcinogen by IARC, NTP or OSHA.

TARGET ORGANS:

Eyes, skin, mucous membranes.

AMMONIUM NITRATE PRILL

MSDS NO.: ELDOR-7

PAGE 5 OF 6

SECTION 12: ECOLOGICAL INFORMATION.

Ammonium nitrate is a plant nutrient; however, it can kill vegetation and fish and cause eutrophication if waterways are contaminated.

SECTION 13: DISPOSAL CONSIDERATIONS.

Sweep or scoop up spilled material. Flush area with copious quantities of water. Dilute spill to at least 50%. Do not allow contact with combustible materials. Spilled dry material or water solutions of ammonium nitrate can be distributed on land as fertilizer or flushed away with copious amounts of water. Consult with federal, state or local authorities for additional or alternative requirements.

SECTION 14: TRANSPORTATION INFORMATION.

Shipping Name:Ammonium Nitrate (with not more than 0.2% of combustible substances including any organic substances calculated as carbon to the exclusion of any added substance)

UN/DOT ID #:UN 1942

DOT/IMO Hazard Class:5.1

Packaging Group:III

DOT Label/Placard:Oxidizer

Quantity Limits:

Passenger Aircraft or Railcar:25kg

Cargo Aircraft Only:100kg

Vessel Stowage:A

Packaging Authorizations:

Exceptions:49 CFR 173.152

Non-bulk Packaging:49 CFR 173.213

Bulk Packaging:49 CFR 173.240

DOT Emergency Response Guide Number: ...140

SECTION 15: REGULATORY INFORMATION.

CERCLA SUPERFUND, 40 CFR 117.302:

There are no reportable quantities for accidental releases of this product under the Comprehensive Environmental Response, Compensation and Liability Act.

SARA HAZARD CATEGORY:

Under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) this product is considered to meet the following categories:

Fire Hazard:Yes

Sudden-Release of Pressure:No

Reactivity Hazard:No

Acute Health Hazard:Yes

Chronic Health Hazard:Yes

AMMONIUM NITRATE PRILL

MSDS NO.: ELDOR-7

PAGE 6 OF 6

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 (40 CFR Part 372): nitrate compounds (water dissociable; reportable only when aqueous solution).

CANADIAN HAZARDOUS PRODUCT ACT

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

SECTION 16: OTHER INFORMATION.

HAZARD RATINGS:

	<u>HMIS</u>	<u>NFPA</u>	
Health	1	1	0: minimal
Flammability	0	0	1: slight
Reactivity	3	3	2: moderate
			3: serious
			4: severe
Special Hazard:	Oxidizer	Oxidizer	

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, El Dorado Chemical Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will El Dorado Chemical Company be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

REVISED 04/2011