In accordance with Resolution 801/15 of the Superintendency of Occupational Risks (SRT) and the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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SECTION 1: Identification of the substance/mixture and the company/enterprise

1.1 Product identification
Product Name: **High Purity Ammonium Nitrate**

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance/mixture:
Formulation of Explosives

1.3 Material Safety Data Sheet Supplier Data
Manufacturer/Supplier:
e-mail: apa.comercial@austinpowder.com
Information Department:
Austin Powder Argentina S.A.- Ruta 16 KM 653; El Galpón 4444, Salta Argentina

1.4 Emergency telephone numbers:
+54 3876 425 600 - 0800 666 2282 (CIPET)

SECTION 2: Hazard identification

2.1 Mixture Classification
Classification according to GHS (Rev.5):

- **Hazards Warning:**

  H272 It can aggravate the spread of a fire; oxidizer.

  H302 Harmful if swallowed.

  H315 It causes skin irritation

  H319 It causes severe eye irritation

  H335 It may irritate the respiratory tract.

- **Pictograms:**



- **Caution tips:**

  P210: Keep away from heat sources, hot surfaces, sparks, open flames, and other sources of ignition; Do not smoke.

  P221: Take precautions to avoid mixing with combustible, oxidizable and incompatible materials.

  P260 - Do not breathe its dust/smoke/gas/mist/mist/fumes/spray.

  P264: Wash carefully after handling

P280: Wear protective gloves/clothing/goggles/face shield/mask.

P305+P351+P338: IN CASE OF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists, seek medical advice.

P370 + P378 – In case of fire, use only water for extinguishing.

2.2 Substance classification and labeling

Hazard Class	Hazard category	Labeling				
		Pictogram		Caution Word	Hazard Warning	Hazard Warning Code
		SGA	United Nations Regulations Model			
Oxidizer Solids	1			Danger	May cause a fire or explosion; highly combustible	H271
	2			Danger	May cause a fire or explosion; combustible	H272
	3			Caution	May cause a fire or explosion; combustible	H272

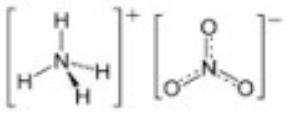
2.3 Other Hazards
In case of fire: Extreme risk of explosion. Evacuation area. **DO NOT fight** fire when fire reaches material.

SECTION 3: Hazard Identification

Chemical characterization	***Substance***
Name CAS Number	*6484-52-2 Ammonium Nitrate*
Identification number(s)	***N° CE:*** *229-347-8;* ***N° NU:*** *1942;* ***N° RTECS:*** *BR9050000;* ***N° ICSC:*** *0216;* ***N° FISQ:*** *3-154;* ***N° MDL:*** *MFCD00011425*
Molecular mass	*80,04*

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Synonyms *Ammonium salt of nitric acid*	***Structural Formula*** 

SECTION 4: First Aid

Inhalation	Remove from exposure immediately, use mask or similar artificial respiration device if necessary. Get medical attention.
Skin Contact	Wash affected area with cool water. Get medical attention
Eye Contact	Flush with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention.
Ingestion	If conscious, drink plenty of fresh water; do not induce vomiting. Get medical attention.

Notes:

- It may cause effects in blood, resulting in the production of methemoglobin.

- Reference antidotes for physicians: Intravenous methylene blue, intravenous ascorbic acid.

SECTION 5: Fire Fighting Measures

Fire Extinguishing Agents	Use the appropriate method for surrounding fire; if directly involving nitrate, use water only. DO NOT use foam or sand.
Fire Fighting Procedure	Use abundant water and flood the area maintaining the distance (1 ton more than 100 meters, less than 500 tons, more than 500 meters and for more than 500 tons at least 1000 meters). Do not move the exposed cargo or the vehicle, clear the area and isolate it, after extinguishing keep the containers cold. If colored fumes are observed immediately evacuate the area at a recommended distance of 1.5 km.
Personal protective equipment	Self-contained breathing apparatus and protective clothing.

SECTION 6: Response in case of spills

Cleaning Method	Small spills: sectorize and put-up signs, collect spillage mechanically with shovels and clean brooms preferably plastic in identified polyethylene bags, do not touch the material, and avoid contact with organic and combustible materials. Large spills: isolate the area, collect spillage following the general instructions for small spills and request specialized technical assistance.
Personal Protective Equipment	Leather or PVC gloves, safety goggles, thick fabric clothing.

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Precautions to avoid environmental damage	Do not let spillage enter sewers/surface water/ground water, due to its high solubility in water. If this occurs, inform the appropriate authority.
Waste Disposal Method	Spillage should be properly collected for disposal. See section 13.

SECTION 7: Handling and storage

Technical Recommendations	Do not store the substance/mixture near acids, alkalis, organic compounds, liquid or gaseous fuels (it may generate violent chemical reactions). Avoid proximity to sources of heat, sparks or flames.
Precautions to be taken	Protect containers from physical damage and store in ventilated areas. Do not smoke, eat or chew in storage areas. Do not confine.
Recommendations for safe handling	Always wear protective gloves and goggles.
Storage Conditions	Ammonium nitrate in bags or in bulk can be stored in the open air and on land suitable for this purpose.
Packaging used and recommended	Carbon or stainless-steel containers, plastic bags or sacks. Do not use copper or its alloys.

SECTION 8: Exposure controls/personal protection

Measures to reduce the possibility of exposure	Provide good ventilation if there is excessive dust. Use adequate personal protective equipment.
Control Parameters	Handle and store by authorized personnel only.
Respiratory Protection	Not required under normal conditions. In case of excessive dust, use a half-mask type respirator with particulate filters.
Hand Protection	Not required under normal conditions. If you have wounds or irritations, wear gloves.
Eye Protection	Safety glasses, preferably goggles
Other Protection	Work Clothes

SECTION 9: Physical and chemical properties

Physical Condition	Solid	**Solubility**	High water solubility
Shape and color	White prill	**Tº auto-ignition**	+ 210ºC
Appearance/color	Little prills	**Tº decomposition**	169ºC
Smell	Odorless	**Flash point**	No information
Density	N/A	**Explosion point**	+260ºC when confined

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pH	4,5 a 6 (25ºC 10% solution)	**Upper flammability limit**	No information
Purity	99,8% min	**Lower flammability limit**	No information

SECTION 10: Stability and reactivity

Stability	Stable at normal pressure and temperature; it may explode if heated under confinement.
Conditions to avoid	High temperatures; confinement.
Materials to avoid	Finely divided metals, zinc, copper and its alloys (reacts violently), strong acids and alkalis (generates ammonia gas). Organic materials, combustible materials and urea (forms explosive mixtures).
Hazardous decomposition products	Highly toxic nitrous vapors (NOx), ammonia.
Hazardous combustion products	Highly toxic nitrous gases (NOx)

SECTION 11: Toxicological information

Short-term toxicity	LD50 (oral rate) = 2217 mg/kg – LC50 (inhalation rate)>88.8mg/l/4h
Long-term toxicity	Above decomposition temperature, it produces toxic gases; it may begin to off-gas at temperatures near decomposition.
Local or systemic effects	Irritant by excessive inhalation, skin and/or eye contact.
Allergic sensitivity	Prolonged skin contact causes dermatitis.

SECTION 12: Eco-toxicological information

Instability	Stable at normal pressure and temperature
Persistence/degradation	Biodegradable
Bioaccumulation	No bioaccumulation expected
Environmental effects	Harmful to aquatic life at concentrations greater than 10 ppm. No effects on soils are expected (acts as a fertilizer). Ecotoxicity data for Aspergillus Niger = 15 mg/l (40 hs).

SECTION 13: Disposal considerations

Disposal of substance, waste, residues, wastes	Residues remaining after spillage collection should be collected and identified. It is not considered hazardous waste. It cannot be returned to the production cycle. Avoid mixing with other everyday waste.
Disposal of contaminated containers/packaging	There is no special treatment; if it is not possible to decontaminate, it must be destroyed.

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SECTION 14: Transport information

14.1 Number ONU, ADR, IMDG, IATA UN 1942

14.2 ONU Shipping Name

· **ADR**	UN 1942 AMMONIUM NITRATE
· **MERCOSUR**	UN 1942 AMMONIUM NITRATE
· **IMDG**	UN 1942 AMMONIUM NITRATE
· **IATA**	UN 1942 AMMONIUM NITRATE

· **14.3 Transportation Hazard Class**

· **ADR, IMDG, MERCOSUR, IATA**



· **Class** 5 Oxidant
· **Tag** 5.1

SECTION 15: Regulatory information

National standards that apply	DECREE 302/1983: National Weapons and Explosives Law, superseded by Decree 37/2001.
Safety, health and environmental regulations and legislation specific to the substance or mixture	No further relevant data are available.

SECTION 16: Other information

Responsibility for the information is not guaranteed, although the information provided is based on our best knowledge.

Relevant phrases
H272 May aggravate a fire; oxidizer.
H319 Causes serious eye irritation.

Recommended restriction of use
Do not use as a fertilizer, except in application for a specific situation.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Dangerous Goods Code
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)