



Centre Anti-Poison pour le Québec: (800) 463-5060

Tél. (Qc): (418) 660-8666 / 800-890-8666


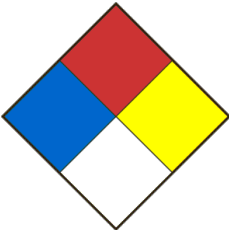
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier AMMONIUM NITRATE		Product Use Laboratory use	
Chemical formula NH <sub>4</sub> NO <sub>3</sub>		Product code AR-0142	Molar weight 80,04
Chemical name / Commercial name / Synonymous AMMONIUM NITRATE, NITRIC ACID AMMONIUM SALT, SALPÊTRE DE NORVÈGE			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 10/12/2018	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	<p>Serious eye damage/eye irritation - Eye irritation category 1A</p> <p>Specific target organ toxicity - Single exposure category 3</p> <p>Oxidizing solids category 3</p> <p>Skin corrosion/irritation - Skin irritation category 2</p>
<b>Signal Word</b>	WARNING
<b>Hazards statements (H)</b>	<p>H272 May intensify fire; oxidiser.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p>
<b>Precautionary statements (P)</b>	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P220 Keep/Store away from clothing and combustible materials.</p> <p>P261 Avoid breathing dust / fume / gas / mist / vapours / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p>
<b>PICTOGRAMS</b>	
<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<p><b>Health</b> 1</p> <p><b>Fire</b> 0</p> <p><b>Reactivity</b> 3</p> <p><b>Special danger</b> OX</p>

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Nitrate d'ammonium	6484-52-2	≤100

## SECTION 04 - FIRST AID MEASURES

<b>Eye contact</b>	If irritation persists, seek medical attention.
<b>Skin contact</b>	If irritation persists, seek medical attention.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects (acute and delayed)</b>	Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	In case of medical consultation, keep this sheet available.
<b>General advice</b>	Show this safety data sheet to the doctor in attendance.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	No
<b>Ignition conditions</b>	Risk of fire or explosion if heated or crushed in presence of combustible products. Not flammable or combustible.
<b>Suitable extinguishing media</b>	
<b>Unsuitable extinguishing media</b>	Data not available.
<b>Hazardous combustion / decomposition products</b>	Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NO <sub>x</sub> ). Ammonia.
<b>Special fire and explosion hazards</b>	Oxidizer. Contact with combustible products may cause fire. Metal powders and some alloys may react violently with molten ammonium nitrate, mainly: stainless steel, aluminum, antimony, bismuth, cadmium, chromium, cobalt, copper, tin, iron, brass, magnesium, manganese, nickel, lead, potassium, sodium, titanium and zinc. Risk of fire or explosion if the ammonium nitrate is heated or ground in contact with the following products: acetic acid, aluminum + calcium nitrate + formamide, ammonia, aluminum chloride, ammonium dichromate, ammonium chloride + water + zinc, ammonium sulphate + potassium, acetic anhydride, acetic anhydride + nitric acid, barium chloride, nitrate barium, sawdust, calcium chloride, charcoal, charcoal + metal oxides, cyanoguanidine, ferric chloride, organic oils, phosphorus, potassium dichromate, chromate potassium, potassium nitrate, potassium nitrite, potassium permanganate, sodium chloride, sulfur, stearates, sugar, trinitroanisole and urea. Highly concentrated aqueous solutions of ammonium nitrate (+50%) can decompose and explode under adiabatic and containment conditions. Containers exposed to fire may explode. May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Methods and materials for containment and cleaning up / Personal precautions, protective equipment</b>	Evacuate personnel to safe areas. Cover the residues with sodium carbonate or calcium oxide to neutralize the product. Dilute residues with water, clean and rinse. When handling, wear appropriate safety equipment. Use a respirator as needed. Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust. Dispose of residues in a container provided for the disposal of hazardous materials.
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## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, combustible and incompatible products. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.
<b>Methods of handling</b>	Always open containers slowly to allow any excess pressure to vent. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Value	Control Citric acid	
AMMONIUM NITRATE	6484-52-2	No data available	TLV, TWA, STEL	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		No data available	TLV, TWA, STEL	Canada. British Columbia OEL
		No data available	TLV, TWA, STEL	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

<b>Ventilation</b>	Use fan.
<b>Respiratory</b>	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
<b>Gloves</b>	Handle with gloves.
<b>Eyes</b>	Safety goggles with safety shutters.
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat.
<b>Engineering control</b>	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid.
<b>Appearance</b>	Billes / flocons / cristaux de couleur blanche.-
<b>Odour</b>	Inodore..
<b>Odour threshold</b>	Data not available
<b>pH</b>	4.5 - 6.0 à 80.40 g/l à 25°C.
<b>Melting point / Freezing point</b>	169°C
<b>Initial boiling point</b>	210°C (dec)
<b>Boiling range</b>	Data not available
<b>Flash point</b>	Data not available
<b>Evaporation rate</b>	Data not available
<b>Flammability</b>	No
<b>Lower flammable / Explosive limit</b>	Data not available
<b>Upper flammable / Explosive limit</b>	Data not available
<b>Vapour pressure</b>	Data not available
<b>Vapour density</b>	Data not available
<b>Relative density</b>	1.72g/cm <sup>3</sup>
<b>Solubility</b>	Très soluble dans l'eau (2000g/L à 20°C). Soluble dans l'alcool.
<b>Partition coefficient water/n-octanol</b>	Data not available
<b>Auto-ignition temperature</b>	Data not available
<b>Decomposition temperature</b>	Data not available
<b>Viscosity</b>	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Non-reactive under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Avoid excessive heat and confinement. Avoid contact with incompatible materials.
<b>Incompatible material</b>	Strong reducing agents (potassium, sodium, metal hydrides), strong acids, acetic anhydride, stainless steel, ammonia, barium nitrate, dichromates, charcoal, chlorides, waxes, cyanoguanidine, oils, brass, fine metal powders, potassium nitrite, potassium permanganate, sulfur, stearates, sugar, trinitroanisole and urea.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx). Ammonia. Nitrous gases.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### AMMONIUM NITRATE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Irritation and tearing.
<b>- Skin</b>	Irritation and dermatitis.
<b>- Inhalation</b>	Irritation of the mucous membranes and respiratory tract. Nervous disorders, respiratory allergies, cough, dyspnea, headache, dizziness, watery eyes, nausea and vomiting.
<b>Acute toxicity (Ingestion)</b>	Irritation of the mucous membranes. Gastrointestinal disorders, cramps, diarrhea, headache, dizziness, convulsions, hypotension, nausea and vomiting.
<b>Chronic exposure effects / symptoms</b>	Burning sensation, dermatitis, nervous disorders, respiratory allergies, chest pain, cough, dyspnea, laryngitis, headache, dizziness, watery eyes, confusion, irritability, fatigue, anemia, methaemoglobinaemia, nausea and vomiting.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - rat - 2,217 mg/kg. LD50 Dermal - Data not available.
<b>CL50 (specify species and route of entry)</b>	Data not available.

## SECTION 12 - ECOLOGICAL INFORMATION

Data not available
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## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
<b>Contaminated Packaging</b>	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

<b>UN Number</b>	1942
<b>UN Proper shipping name</b>	NITRATE D'AMMONIUM
<b>Transport hazard class(es)</b>	5.1 Oxidizing substances
<b>Packing group</b>	III
<b>Limited quantity index</b>	5kg
<b>ERAP Index</b>	
<b>Special precautions</b>	

## SECTION 15 - REGULATORY INFORMATION

<b>WHIMS CANADA</b>	Serious eye damage/eye irritation - Eye irritation category 1A Specific target organ toxicity - Single exposure category 3 Oxidizing solids category 3 Skin corrosion/irritation - Skin irritation category 2
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## SECTION 16 - OTHER INFORMATION

### Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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