



SAFETY DATA SHEET
According to 29 CFR 1910.1200

**CALCIUM AMMONIUM
NITRATE (CAN 17)**

Date of issue: December 28, 2011 Revision date: September 01, 2023 Version: 5

SECTION 1.- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form Substance or Mixture
Substance name Calcium ammonium nitrate solution
CAS No. Not available
Formula $(\text{Ca}(\text{NO}_3)_2) + (\text{NH}_4\text{NO}_3) + \text{H}_2\text{O}$
Synonyms CAN 17

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture According to the technical sheet of the product.

1.3 Details of the supplier of the safety data sheet

Pima Chemicals & Fertilizers, LLC
1370 Nogales, Az.
Tel. 011 52 (662) 182-0559
rgutierrez@quimicapima.com
www.quimicapima.com

Química Pima, S.A. de C.V.
Del Cobre 20, Parque Industrial Hermosillo.
Hermosillo, Sonora, México. C.P. 83297
Tel. 011 (662) 251-0010 ventas@quimicapima.com

1.4 Emergency telephone number

Emergency number CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

SECTION 2.- HAZARD IDENTIFICATION

2.1. GHS-US classification

Skin corrosion/irritation 2 H315
Serious eye damage/irritation 2A H319

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US):

Danger

Hazard statement (GHS-US):

H315 Causes severe skin burns and eye damage.
H319 Causes serious eye damage.

Precautionary statements (GHS-US):

P264 Wash exposed skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 In case of skin irritation: consult a doctor.
P362+P364 Remove contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse thoroughly with water for several minutes.



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Remove contact lenses, when present and can be done easily. Continue washing.
P337+P313 If eye irritation persists, see a doctor
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
None to our knowledge.

2.3. Other hazards

2.4 Unknown acute toxicity (GHS-US)

Not applicable.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Mixture Mixture

3.2 Substance Not applicable

Name	Product identifier	%	GHS-US classification
Calcium Nitrate (Ca(NO ₃) ₂)	(CAS No.) 10124-37-5	36	Ox. Sol. 3; H272 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Ammonium Nitrate (NH ₄ NO ₃)	(CAS No.) 6484-52-2	15	Skin Irrit. 3, H31 Eye irritation 2A, H319
Water (H ₂ O)	(CAS No.) 7732-18-5	49	Not classified

SECTION 4.- FIRST AID MEASURE

4.1. Description of first air measure

- First-aid measures general** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
- First-aid measures after eye contact** Immediately flush eyes with plenty of running water for less than 30 minutes. Keep your eyes open during washing. Get specialized medical attention right away.
- First-aid measures after skin contact** Quickly remove contaminated clothing and accessories. Immediately wash the affected area with plenty of running water. Get medical attention right away if symptoms continue after washing.
- First-aid measures after inhalation** No specific effects or critical hazards are known. In the event of symptoms of illness, proceed as follows. Transport the person outdoors and keep them in a position that makes it easier for them to breathe. Call a POISON CENTER OR MEDICAL.
- First-aid measures after ingestion** Do not induce vomiting. Wash your mouth taking care not to swallow the washing water, immediately after drinking plenty of water or milk. If the person is unconscious do not give anything by mouth. If you are not breathing, apply artificial respiration (NOT mouth to mouth, wear a pocket mask), if breathing is difficult, administer oxygen. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation** No specific effects or critical hazards are known.
- Symptoms/injuries after skin contact** Causes skin irritation
- Symptoms/injuries after eye contact** Causes Serious eye damage/irritation
- Symptoms/injuries after ingestion** It can cause irritation of the digestive tract with the accompaniment of nausea, vomiting and diarrhea. It can interfere with the oxygen carrying capacity of the blood, if it is ingested in large quantities or over a long period of time. People with anemia, intestinal disease, or



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Chronic symptoms

children are more likely to develop effects. Overexposure by ingestion is unlikely under normal working conditions.

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin irritation. Eye irritation. Inhalation Under normal conditions of storage and use, hazardous decomposition products should not be produced but if it is exposed with high temperature can release dangerous decomposition products, such as carbon monoxide and dioxide, smoke, nitrogen oxides, etc. Adverse symptoms may include the following: headache, irritation of the respiratory tract.

4.3. Indications of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Not flammable. Any fire extinguishing media may be used on nearby fires.

Unsuitable extinguishing media No unsuitable extinguishing media known.

5.2. Special hazard arising from the substance or mixture

Fire hazard DIRECT FIRE HAZARD. Noncombustible. INDIRECT FIRE HAZARD. Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.

Reactivity Under fire conditions, this material can decompose the product emitting toxic fumes (NH₃, NO, NO₂). Keep unnecessary people away.

5.3. Advice for firefighters

Precautionary measures fire Not combustible. Decomposes with heat. It releases toxic fumes when heated to decomposition. Dangerous if allowed drying. The residues can acquire oxidizing properties.

Firefighting instructions It is not an oxidizer at the concentration that is manufactured. It may act as an oxidizing liquid if concentrated by evaporation. If evaporated to the degree of dryness, it acts as an oxidizing agent. In the event of a fire, flood the area with amounts of water even after the fire has been extinguished. Self-contained breathing apparatus should be worn to avoid inhalation of toxic fumes. When heated to decomposition, it emits toxic fumes (NH₃, NO, NO₂). Water runoff can cause environmental damage. Contain the water that was used to extinguish the fire.

Protection during firefighting In the event of a fire, quickly isolate the area by evacuating all persons from the vicinity of the incident site. Firefighters must wear suitable protective equipment and self-contained breathing apparatus (SCBA) with a full-face mask operating in positive pressure mode. Firefighter clothing (including helmets, gloves, and protective boots) has a basic level of protection in the event of a chemical incident

SECTION 6. - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Wear appropriate breathing apparatus when ventilation is insufficient. Put on appropriate personal protective equipment. If special clothing is required to cope with the spill, consider the information in Section 8 on appropriate and unsuitable materials.

Emergency procedures

You must not take any action that poses an excessive risk or if personnel are not adequately trained. Evacuate the surroundings. Keep unnecessary and unprotected



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Observations personnel away. Do not touch or walk through spilled material. Provide adequate ventilation.
Not combustible. Decomposes with heat. It releases toxic fumes when heated to decomposition. Dangerous if allowed to dry. The residues can acquire oxidizing properties.

6.1.2. For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection"

Emergency procedures

Ventilate area.

6.2. Environmental precautions

Stop leaks if possible. Contain spills by all available means. Cover the drains. Do not allow it to enter the ground / subsoil. Do not pour into the drain or into the environment.

6.3. Methods and material for containment and cleaning up.

Method for containment Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute vapor cloud with water spray. If reacting: dilute toxic gas/vapor with water spray. Take account of toxic/corrosive precipitation water.

Methods for cleaning up Prevent dispersion by covering with dry sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information

Dispose of materials, liquid or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection.

SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling Put on appropriate personal protective equipment (see Section 8). Do not eat. Do not allow it to get into eyes or contact with skin or clothing. Do not breathe vapors or mists. Do not eat. If during normal use the material poses a respiratory hazard, ensure adequate ventilation or use an appropriate respirator. Keep in the original container or in an authorized alternative one made of compatible material, keep tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from alkalis. Keep away from heat. Empty containers retain product residue and can be dangerous.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool, well-ventilated place away from incompatible materials. Keep container closed when not in use.

Incompatible products

Keep substance away from: combustible materials. Reducing agents. (Strong) acids, metals. Organic materials.

Heat-ignition

Keep substance away from: heat sources.

Storage area

Store in a dry area. Store at room temperature. Keep container in a well-ventilated place. Meet the legal requirements.

Special rules on packaging

SPECIAL REQUIREMENTS: closing. Dry. Correctly labelled. Meet the legal requirements. Secure fragile packaging in solid containers.

Packaging materials

Appropriate packing material: the one supplied by the manufacturer. Stainless steel, glass or HDPE.

7.3 Specific end use(s)

No additional information available.



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SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Nitrate 10124-37-5	Not available	Not available	Not available
Ammonium Nitrate 6484-52-2	Not available	Not available	Not available

8.2. Exposure controls

Appropriate engineering controls	Ensure good ventilation of the workstation. Extraction to remove dust at its source. Emergency sources for eyewash and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	Vapor production: vapor mask with 3M 6003 organic vapor/acid gas cartridge. Gloves. Safety glasses.
Material for protective clothing	GIVE GOOD RESISTANCE: nitrile, neoprene or PVC. GIVE POOR RESISTANCE: natural fibers.
Hand protection	Gloves. Recommended: nitrile, neoprene or PVC.
Eye protection	Safety glasses. In case of vapor production: protective goggles.
Skin and body protection	Protective clothing. Recommended: Tychem SL, Tychem F, Tychem ThermoPro, Tychem TK or equivalent.
Respiratory protection	Vapor production: vapor mask with 3M 6003 organic vapor/acid gas cartridge in case of inadequate ventilation.
Environmental exposure controls	Avoid release to the environment.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid.	Appearance:	Liquid.
Odor:	Odorless.	Color:	Colorless to slightly brown
Molecular mass			No data available.
Odor threshold			No data available.
pH			5 – 6.5
pH solution			No data available.
Relative evaporation rate (butyl acetate=1)			No data available.
Melting point			-2°C (28.4°F)
Freezing point			No data available.
Boiling point			121°C (249.8°F)
Flash point			Not applicable.
Self-ignition temperature			Not applicable.
Decomposition temperature			No data available.
Flammability (solid, gas)			No data available.
Vapor pressure			No data available.



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Relative vapor density	No data available.
Relative density at 30°C	1.5 g/cm ³
Solubility	Soluble in water
Log Pow	No data available.
Log Kow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.
Explosive limits	No data available.

9.2 Other information No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	It is not an oxidizer in the manufacturing concentration. It may act as an oxidizing liquid if concentrated by evaporation. It can react explosively when mixed with chlorinated materials such as hypochlorites.
10.2 Chemical stability	The chemical is stable under normal conditions.
10.3 Possibility of hazardous reactions	None under normal conditions of use.
10.4 Conditions to avoid	Do not allow it to dry out. Avoid high temperatures in combination with high pressures.
10.5 Incompatible materials	Incompatible with halogens. It may be incompatible with some metals used in storage and handling equipment.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced but At very high temperatures it is possible the formation of poisonous gases including nitrogen oxides.

SECTION 11.-TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects

Likely routes of exposure	Skin and eyes contact; inhalation; ingestion.
Acute toxicity	Not classified.

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
CAN 17	2,950 mg/kg (rat)	> 5,000 mg/kg (rat)	-
Calcium Nitrate	> 302 mg/kg (rat)	-	-
Ammonium Nitrate	4,820 mg/kg (rat)	> 3,000 mg/kg (rabbit)	-

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Adverse symptoms may include the following: pain or irritation, tearing, redness.
Respiratory or skin sensitization	When exposed to high temperatures, they can release dangerous decomposition products, such as carbon monoxide and dioxide, smoke, nitrogen oxides, etc. Adverse symptoms may include the following:



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Ingestión	headache, irritation of the respiratory tract.
Carcinogenicity	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Mutagenic effects	It can cause irritation of the digestive tract with the accompaniment of nausea, vomiting and diarrhea.
Reproductive toxicity	Not classified.
Specific target toxicity (single exposure)	Not classified.
Specific target toxicity (repeat exposure)	Not classified.
Aspiration hazard	Not classified.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Low toxicity to aquatic organisms. Very low acute toxicity to fish.

12.2 Persistence and degradability

It is readily biodegradable in plants and soils. As long as the product is used properly, according to instructions, no damage to the environment is generated

12.3 Bioaccumulative potential

The product generates no bioaccumulation

12.4 Mobility in soil

This product can move with currents of surface water or groundwater because of its solubility in water.

12.5 Other adverse effects

Other information

No known ecological damage caused by this product.

SECTION 13.- DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods

Dispose of in accordance with relevant local regulations.

Waste disposal recommendations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into surface water.

SECTION 14.- TRANSPORT INFORMATION

14.1.UN number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Additional information

Other information

No supplementary information available.

Overland transport

No additional information available.



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Transport by sea
Air transport

No additional information available.
No additional information available.

SECTION 15.- REGULATORY INFORMATION

15.1 US Federal regulations

This product does not contain chemicals that are subject to the information requirements of Act and Title 40 of the Code of Federal Regulations, Part 372.

15.2 International regulations

CANADA

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

WHMIS Classification

Information not available.

EU-Regulations

No additional information available.

15.2.2. National regulations

Information not available.

SECTION 16.- OTHER INFORMATION

NFPA	NFPA health hazard	2	NFPA fire hazard	0	NFPA instability hazard	1	NFPA Special hazard	-
HMIS III	Health	2	Flammability	0	Physical	1	Personal Protection	B

G Splash goggles, Gloves, Synthetic apron, Vapor respirator



Made for: Quimica Pima, S.A. de C.V. Del Cobre No. 20 Parque Industrial. Hermosillo, Sonora, México. 83297.

Date of issue: December 28, 2011

Revision date: September 01, 2023

Revision note: October 17, 2016 4th rev. In this latest revision is updated according to 29 CFR 1910.1200.
July 17, 2018 4.1 rev. Section 2 and section 16 were modified.
September 01, 2023. 5th rev. Syntax and spelling improvements and corrections were made.

IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and apply to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

End of Safety Data Sheet