



SAFETY DATA SHEET
According to 29 CFR 1910.1200

NITRASOL CALCIUM LIQUID

Date of issue: December 28, 2011 Revision date: September 01, 2023 Version: 3

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

1.1 Product identifier

Product form Substance or Mixture
Substance name Calcium nitrate + (0 – 5%) ammonium nitrate
CAS No. Not available
Formula $\text{Ca}(\text{NO}_3)_2 + (0 - 5\%) (\text{NH}_4)(\text{NO}_3)$
Synonyms Nitrasol calcium liquid

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

Use of the substance/mixture Fertilizers

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@qpima.com
www.qpima.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@qpima.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

Oxidizing solids 3 H272
Skin corrosion/irritation 3 H316
Eye damage/irritation 2B H320
Specific target organ toxicity (single exposure) 3 H335

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US):

Warning

Hazard statement (GHS-US):

H272 May intensify fire; oxidizer.
H316 Causes mild skin irritation.
H320 Causes eye irritation.
H335 May cause respiratory irritation.



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Precautionary statements (GHS-US):

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P220 Keep/Store away from clothing/combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash exposed skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P352 IF ON SKIN (or hair): Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor/physician if you feel unwell.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P370+P378 In case of fire: Use any appropriate means to extinguish.
 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.

2.3. Other hazards

None to our knowledge.

2.4 Unknown acute toxicity (GHS-US)

Not applicable.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance Not applicable

3.2 Mixture

Name	Product identifier	%	GHS-US classification
Calcium Nitrate	(CAS No.) 10124-37-5	> 50	Ox. Sol. 3; H272 Skin Irrit. 3, H316 Eye Irrit. 2B, H320 STOT-SE 3; H335
Ammonium Nitrate	(CAS No.) 6484-52-2	0 - 5	Skin Irrit. 3, H31 Eye irritation 2A, H319

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 Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

First-aid measures after skin contact Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

First-aid measures after inhalation Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Get medical attention.



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First-aid measures after ingestion

If Potassium Nitrate is swallowed, if conscious, give plenty of water. Immediately call a physician. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries after inhalation Irritation of the respiratory tract. Pain / dry throat. Cough.

Symptoms/injuries after skin contact Irritation of the skin. Redness. Pain.

Symptoms/injuries after eye contact Redness of the eye tissue. Irritation of the eye tissue. Pain. Tearing,

Symptoms/injuries after ingestion Abdominal pain, diarrhea, nausea, vomiting. After absorption of large quantities: blood in the stool. Methemoglobinemia. They may appear last time: change blue / gray skin color. Dizziness. Feeling weak. Heart rhythm disturbances. Headache. Disorders of consciousness.

Chronic symptoms

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Respiratory difficulties.

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 Adapt extinguishing media to the environment.

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

Decomposes on exposure to temperature rise: release of oxygen and nitrogen oxides. On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Violent to explosive reaction with many compounds e.g.: with organic material, with combustible materials, with (some) metals and their compounds and with (strong) reducers. Reacts with (some) acids: release of toxic and corrosive gases/vapours (nitrous vapours).

5.3. Advice for firefighters

Precautionary measures fire

Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighborhood close doors and windows.

Firefighting instructions

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray.

Protection during firefighting

Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel



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Protective equipment	Gloves. Protective clothing. Vapor or spray cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit.
Emergency procedures	Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
Measures in case of dust release	In case of vapor or spray production: keep upwind. Vapor or spray production: have neighborhood close doors and windows.
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	
Avoid release to the environment. Do not allow product to spread into the environment. Do not discharge into drains or rivers	
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 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	Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
Hygiene measures	Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

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.



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Special rules on packaging

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

Packaging materials

SUITABLE MATERIAL: Synthetic material. Glass. MATERIAL TO AVOID: Aluminum.

7.3 Specific end use(s)

No additional information available.

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 work station. Extraction to remove dust at its source. Emergency eye wash fountains 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: butyl rubber. Neoprene. Rubber. GIVE POOR RESISTANCE: natural fibers.
Hand protection	Gloves.
Eye protection	Safety glasses. In case of vapor production: protective goggles.
Skin and body protection	Protective clothing.
Respiratory protection	Vapor production: vapor mask with 3M 6003 organic vapor/acid gas cartridge
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:	Amber.
Molecular mass			164.10 g/mol
Odor threshold			No data available.
pH			5.5 – 7.5
pH solution			10%
Relative evaporation rate (butyl acetate=1)			No data available.
Melting point			-17.5°C (0.5°F)
Freezing point			No data available.
Boiling point			117°C (242.6°F)
Flash point			Not applicable.
Self ignition temperature			Not applicable.
Decomposition temperature			95°C (203°F)



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Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target toxicity (single exposure)	May cause respiratory irritation.
Specific target toxicity (repeat exposure)	Not classified.
Aspiration hazard	Not classified.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology - General	Classification concerning the environment: not applicable.
Ecology - Air	Not classified as dangerous for the ozone layer.
Ecology - Water	No data available.

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. 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.
Waste disposal recommendations	

SECTION 14.- TRANSPORT INFORMATION

14.1. UN number	No regulated
14.2. UN proper shipping name	No regulated
14.3. Additional information	
Other information	No regulated
Overland transport	No regulated



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Transport by sea

No regulated

Air transport

No regulated

Remark: Not a DOT regulated material. 49 CFR 172.102 Special Provision 34 specifically removes the commercial grade calcium nitrate double salt (calcium nitrate and ammonium nitrate) from the Hazardous Materials Table 49 CFR 172.101.

SECTION 15.- REGULATORY INFORMATION

15.1 US Federal regulations

Calcium Nitrate (10124-37-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 313 - Emission Reporting | None of the ingredients is listed.

15.2 International regulations

CANADA

Calcium Nitrate (10124-37-5)

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

WHMIS Classification | Class D-1B: Material causing immediate and serious toxic effects (Toxic).

EU-Regulations

Calcium Nitrate (10124-37-5)

No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Ox. Sol. 3 H272

15.2.2. National regulations

Calcium Nitrate (10124-37-5)

Not listed on the Canadian Ingredient Disclosure List.

SECTION 16.- OTHER INFORMATION

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

G Safety glasses, gloves and vapor respirator



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

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Revision note: June 04, 2016. 2nd rev. In this latest revision is updated according to 29 CFR 1910.1200.
May 05, 2018. 2.1 rev. Physical and chemical properties of the substance were modified.
September 01, 2023. 3rd 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