

According to 29 CFR 1910.1200

NITRASOL CALCIUM

Date of issue:	December 28, 2011	Revision date:	April 06, 2016	Version.	2	
SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING						
1.1 Product identifier						
Product form	Mixture					
Substance name	Nitrasol Calc	ium				
CAS No.	Not available	9				
Formula	Ca(NO ₃) ₂ + N	NH4NO3				
Synonyms		n nitrate, calcium nitrate Sol Calcium Granules.	fertigation, double salt o	f calcium nitrate and	ammonium	
1.2 Relevant identified uses	of the substance or mixtu	re and uses advised a	gainst			
Use of the substance/mix	ture Fertilizers					
1.3 Details of the supplier of	-					
Pima Chemicals & Fertilize 1370 Nogales, Az. Tel. 011 52 (662) 182-0559 rgutierrez@quimicapima.co www.quimicapima.com)	Hermosillo, Sor	S.A. de C.V. Parque Industrial Hermos nora, México. C.P. 83297 251-0010 ventas@quimi	7		
1.4 Emergency telephone nu	mber					
Emergency number	CHEMTREC	(24HR Emergency Tel	ephone), call: 1-800-424	-9300		
SECTION 2 HAZARD IDENT	IFICATION					
2.1. GHS-US classification						
Oxidizing solids 3 H272						
Skin corrosion/irritation 3 I	H316					
Eye damage/irritation 2B I	1320					
Specific target organ toxic	ity (single exposure) 3 H335	5				
2.2. Label elements						
GHS-US labelling						
Hazard pictograms (GHS	S-US)	<	<u>.</u>			
Signal word (GHS-US):	Warnin	ng	▼ ▼			
Hazard statement (GHS-		o May intensify fire; oxidize	er.			
·		Causes mild skin irritatio	n.			
	H320 (Causes eve 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. 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.

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SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

Not applicable

3.1 Substance

3.2 Mixture

Name Product identifier		%	GHS-US classification
Calcium Nitrate	(CAS No.) 10124-37-5	< 77.8	Ox. Sol. 3; H272 Skin Irrit. 3, H316 Eye Irrit. 2B, H320 STOT-SE 3; H335
Ammonium Nitrate	(CAS No.) 6484-52-2	> 6.5	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

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.				

Never give anything by mouth to an unconscious person.

If Potassium Nitrate is swallowed, if conscious, give plenty of water. Immediately call a physician.

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 subs	tance or mixture
	Fire hazard	DIRECT FIRE HAZARD. Non combustible. 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



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6.1.1. For non-emergency personnel

Protective equipment	Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
	Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit.
Emorgonov 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
Emergency procedures	reactivity hazard: consider evacuation.
	In case of dust production: keep upwind. Dust production: have neighborhood close
Measures in case of dust release	doors and windows.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further
Protective equipment	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 dust 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.
A Defense to athen a stime	

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 Hygiene measures Hygiene measures 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. 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 Incompatible products Heat-ignition Storage area



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Special rules on packaging

Packaging materials

7.3 Specific end use(s)

SPECIAL REQUIREMENTS: closing. Dry. Correctly labelled. Meet the legal requirements. Secure fragile packaging in solid containers. SUITABLE MATERIAL: Synthetic material. Glass. MATERIAL TO AVOID: Aluminum.

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	Dust production: dust mask with filter type P2. 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 dust production: protective goggles.		
Skin and body protection	Protective clothing.		
Respiratory protection	Dust production: dust mask with filter type P2.		
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:	Solid.	Appearance:	Crystalline solid. Crystalline powder.	
Odor:	Odorless.	Color:	White to slightly brown.	
Molecular mass		164.10 g/mol		
Odor threshold		No data available.		
рН		5 – 7		
pH solution		10%		
Relative evaporation rate (butyl acetate=1)		No data available.		
Melting point		116.67°C		
Freezing point		No data available.		
Boiling point		Not applicable.		
Flash point		Not applicable.		
Self ignition temperature		Not applicable.		
Decomposition temperature		95°C		



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Flammability (solid, gas)		No data available.			
Vapor pressure		No data available.			
Relative vapor density at 20°	C		6.0		
Relative density			1050 kgm ± 5%		
Density/specific gravity		No data available.			
Solubility			Soluble in water.		
Lee Devi			Water: 250 g/100 ml @ 20°C Not applicable (inorganic substance).		
Log Pow Log Kow			No data available.		
Viscosity, kinematic			No data available.		
•			No data available.		
Viscosity, dynamic			No data available.		
Explosive properties					
Oxidizing properties			May intensify fire; oxidizer. No data available.		
Explosive limits 9.2 Other information					
9.2 Other information No additional information availa	blo				
SECTION 10 STABILITY AND RE	ACTIVITY				
10.1 Reactivity	of toxic with ma (some) acids: re	Decomposes on exposure to temperature rise: release of oxygen. 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). Stable under recommended storage conditions.			
10.2 Chemical stability			Ŭ		
10.3 Possibility of hazardous read			al conditions of use.	•	
10.4 Conditions to avoid		Direct sunlight. Heat. Incompatible materials. Open flame. Sparks.			
10.5 Incompatible materials		Combustible materials, powdered metals, ammonia, hydrazine, reducing agents, phosphorus, sulfur, concentrated acids, copper salts, chlorides, hypochlorites perchlorates, chromates, nitrites, permanganates, strong alkalis, organic materials or coal (hot).			
10.6 Hazardous decomposition p		At very high temperatures it is possible the formation of poisonous gases including nitrogen oxides.			
SECTION 11TOXICOLOGICAL INFORMATION					
11. 1. Information on toxicologica	l effects				
Likely routes of exposure		Skin and eyes contact; inhalation; ingestion.			
Acute toxicity Not clas			sified.		
Name	LD ₅₀ oral		LD ₅₀ dermal	LC_{50} inhalation	
Calcium Nitrate	302 mg/kg (rat)		-	-	
Ammonium Nitrate	2217 mg/kg (rat)		-	-	



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Skin corrosion/irritation	Causes mild skin irritation.
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 Waste disposal recommendations	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.
SECTION 14 TRANSPORT INFORMATION	Remove to an authorized dump (Class I). Do not discharge into surface water.

SECTION 14 TRANSPORT INFORMATION	I
14.1.UN number	Not applicable. In accordance with DOT not regulated for transport.
14.2. UN proper shipping name	Not applicable.
14.3. Additional information	
Other information	No supplementary information available.



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Overlan	d transport		No addition	nal infor	mation available.			
Transpo	ort by sea		No addition	nal infor	mation available.			
Air trans	sport		No addition	nal infor	mation available.			
SECTION 15.	- REGULATORY INFORMA	TION	1					
15.1 US Fede	eral regulations							
Calcium Nitr	ate (10124-37-5)							
Listed on the	United States TSCA (Toxic	Subst	tances Control Act) in	nventor	y			
SARA Section	n 313 - Emission Reporting	No	one of the ingredients	s is liste	d.			
15.2 Internati	onal regulations							
CANAD	٩							
Calcium Nitr	ate (10124-37-5)							
Listed on the	Canadian DSL (Domestic Su	bstan	ices List) inventory.					
WHMIS Class	ification		Class D-1B: Mate	erial cau	using immediate and serious	toxic	effects (Toxic).	
EU-Regu	lations							
Calcium Nitr	ate (10124-37-5)							
No additional	information available.							
Classific	ation according to Regulat	on (E	EC) No. 1272/2008 [C	CLP]				
Ox. Sol. 3	3 H272							
15.2.2. Nation	nal regulations							
Calcium Nitr	ate (10124-37-5)							
	the Canadian Ingredient Dis	closu	re List.					
	- 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	Е
E	Safety glasses, gloves and	dust	respirator.	e		D		
Made for:	Quimica Pima, S	.A. de	e C.V. Del Cobre No.	20 Pare	que Industrial. Hermosillo, S	onora	a, México. 83297.	
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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