



SAFETY DATA SHEET

According to 29 CFR 1910.1200

NITRASOL CALIBOR

Date of issue: August 29, 2023 Revision date: August 29, 2023 Version: 1

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

1.1 Product identifier

Product form	Mixture
Substance name	Nitrasol Calibor
CAS No.	Not available
Formula	$(\text{Ca}(\text{NO}_3)_2) + (\text{NH}_4\text{NO}_3) + (\text{H}_2\text{O}) + (\text{H}_3\text{BO}_3)$
Synonyms	Solid calcium nitrate with boron

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

Química Pima, S.A. de C.V.
Del Cobre 20, Parque Industrial Hermosillo.Hermosillo,
Sonora, México. C.P. 83297
ventas@quimicapima.com www.quimicapima.com

Tel. 011 (662) 251-0010 / (662) 251-0316

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

Harmful if swallowed 4 H302
Skin corrosion/irritation 3 H316
Serious eye damage/irritation 2A H319

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US):

Warning

Hazard statement (GHS-US):

H302 Harmful if swallowed

H316 Causes mild skin irritation.

H319 Serious eye damage/irritation.



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Precautionary statements (GHS-US):

P264 Wash exposed skin thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330 IF SWALLOWED: Rinse mouth.
 P302+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.
 P403+P233 Store in a well-ventilated place.

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.- COMPOSITION / INFORMATION OF INGREDIENTS

3.1 Substance Not applicable
3.2 Mixture Mixture

<i>Name</i>	<i>Product identifier</i>	<i>%</i>
Calcium Nitrate Ca (NO ₃) ₂	(CAS No.) 10124-37-5	≈ 75 – 80
Ammonium Nitrate NH ₄ NO ₃	(CAS No.) 6484-52-2	≈ 6 – 8
Boric Acid H ₃ BO ₃	(CAS No.) 10043-35-3	≈ 0 – 1

SECTION 4.- FIRST AID MEASURE

4.1. Description of first aid 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 Nitrasol calibor 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. 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

6.1.1. For non-emergency personnel



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Protective equipment
Emergency procedures

Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. 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 dust production: keep upwind. Dust production: have neighborhood close doors and windows.

6.1.2. For emergency responders

Protective equipment
Emergency procedures

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

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.

Special rules on packaging

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



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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
Boric Acid 10043-35-3	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.

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.

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			No data available
Odor threshold			No data available.
pH			4 – 7
pH solution			10%
Relative evaporation rate (butyl acetate=1)			No data available.



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Melting point	98 °C
Freezing point	98 °C
Boiling point	Not applicable.
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.
Relative vapor density at 20°C	No data available
Relative density	950 kgm ± 5%
Density/specific gravity	No data available.
Solubility	Soluble in water. Water: 200 g/100 ml @ 20°C
Log Pow	Not applicable (inorganic substance).
Log Kow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidizing properties	May intensify fire; oxidizer.
Explosive limits	No data available.

9.2 Other information

No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity

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).

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal 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 products

At very high temperatures it is possible the formation of poisonous gases including nitrogen oxides.



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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
Calcium Nitrate	302 mg/kg (rat)	> 2000 mg/kg	> 88.8 mg/l (rat)
Ammonium Nitrate	2217 mg/kg (rat)	> 5000 mg/kg (rat)	> 88.8 mg/l (rat)
Boric Acid	> 3765 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 2.03 mg/l (rat)

Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/irritation	Causes serious eye damage/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.



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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 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.
Overland transport	No additional information available.
Transport by sea	No additional information available.
Air transport	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

Calcium Ammonium Nitrate (15245-12-2)

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

WHMIS Classification	Information not available
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EU-Regulations

No additional information available.

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

Ox. Sol. 3 H272

15.2.2. National regulations

Norma Oficial Mexicana NOM-003-STPS-1999, Actividades agrícolas - Uso de insumos fitosanitarios o plaguicidas e insumos de nutrición vegetal o fertilizantes - Condiciones de seguridad e higiene.
 Norma Oficial Mexicana NOM-182-SSA1-2010, Etiquetado de nutrientes vegetales.
 Norma Oficial Mexicana NOM-002-SCT/2011, Listado de las sustancias y materiales peligrosos más usualmente transportados.



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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	E

E Safety glasses, gloves and dust 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: In this latest revision is updated according to 29 CFR 1910.1200.

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