

According to 29 CFR 1910.1200



| Date of issue: | December 28, 2011 | Revision date: | September 01, 2023 | Version. | 3 |
|---|---------------------------------------|---|---|--------------------|----------|
| SECTION 1 IDENTIFICATION | N OF THE SUBSTANCE/MIX | (TURE AND OF THE C | OMPANY/UNDERTAKING | | |
| 1.1 Product identifier | | | | | |
| Product form | Mixture | | | | |
| Substance name | Nitrasol Calci | um | | | |
| CAS No. | Not available | | | | |
| Formula | Ca(NO ₃) ₂ + N | IH ₄ NO ₃ | | | |
| Synonyms | Solid calcium | nitrate, calcium nitrate | fertigation, double salt of ca | alcium nitrate and | ammonium |
| | nitrate. Nitra | aSol Calcium Granules | S. | | |
| 1.2 Relevant identified uses of | of the substance or mixture | e and uses advised ag | ainst | | |
| 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@qpima.com www.qpima.com 1.4 Emergency telephone nu. |) | Hermosillo, Son | S.A. de C.V. Parque Industrial Hermosillo ora, México. C.P. 83297 251-0010 ventas@qpima.co | | |
| Emergency number | | (24HR Emergency Tele | phone), call: 1-800-424-93 | 00 | |
| SECTION 2 HAZARD IDENTI | | <u>(</u> | <u> </u> | | |
| 2.1. GHS-US classification | | | | | |
| Oxidizing solids 3 H272 | | | | | |
| Skin corrosion/irritation 3 H | 1316 | | | | |
| Eye damage/irritation 2B H | 1320 | | | | |
| Specific target organ toxici | ity (single exposure) 3 H335 | | | | |
| 2.2. Label elements | | | | | |
| GHS-US labelling | | | | | |
| Hazard pictograms (GHS | i-US) | | | | |
| Signal word (GHS-US): | Warnin | ng | • | | |
| Hazard statement (GHS-U | • | lay intensify fire; oxidize Causes mild skin irritatio | | | |

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 precautions to avoid mixing with combustibles. P261 Avoid breathing dust/fume/gas/mist/vapors/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. |
| | |

2.

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 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 the exposed area for at least 15 minutes. Remove contaminated clothing. Laundercontaminated 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

er 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 is known. |
| 5.2. | Special hazard arising from the subst | 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 is available on direct explosion hazards. INDIRECTEXPLOSION HAZARD. No data is available on indirect explosion hazards. |
| | Reactivity | Decomposes on exposure to temperature rise: release of oxygen and nitrogen oxides. On burning: release of toxic and corrosive gases/vapors (nitrous vapors). 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/vapors (nitrous vapors). |
| 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. |
|----------------------------------|--|
| 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 dust production: keep upwind. Dust 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.

| | Contain released substance, and pump into suitable containers. Consult "Material-handling" to select |
|---------------------------------|---|
| Method for containment | material of containers. Plug the leak, and cut off the supply. Knock down/dilute the 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 it with dry sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Spill must not return to 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 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 Precautions for safe handling 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 your hands after handling the Hygiene measures product. Do not eat, drink, or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Keep only in the original container in a cool, well-ventilated place away from incompatible Storage conditions materials. Keep container closed when not in use. KEEP SUBSTANCE AWAY FROM: combustible materials. Reducing agents. (Strong) acids. Incompatible products metals. Organic materials. Heat-ignition KEEP SUBSTANCE AWAY FROM: heat sources.

Storage areaStore 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

Packaging materials

7.3 Specific end use(s)

SPECIAL REQUIREMENTS: closing. Dry. Correctly labeled. 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 workstation. Extraction to remove dust at its source. Emergency eye wash fountains and safety showers should be available near 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

| ical and chemical propert | ies | |
|---------------------------|--------------------|---|
| Solid. | Appearance: | Crystalline solid. Crystalline powder. |
| Odorless. | Color: | White to slightly brown. |
| | 164.10 g/mol | |
| | No data available. | |
| | 5 – 7 | |
| | 10% | |
| (butyl acetate=1) | No data available. | |
| | 116.67°C | |
| | No data available. | |
| | Not applicable. | |
| | Not applicable. | |
| | Not applicable. | |
| ire | 95°C | |
| | Solid. | Odorless. Color: 164.10 g/mol No data available. 5 – 7 10% (butyl acetate=1) No data available. 116.67°C No data available. Not applicable. Not applicable. Not applicable. |



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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 kg ± 5% |
| Density/specific gravity | No data available. |
| Solubility | Soluble in water. Water: 250 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/vapors (nitrous vapors). 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/vapors (nitrous vapors). |
| 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. |

10.4 Conditions to avoid

10.5 Incompatible materials

^{10.6} Hazardous decomposition products

Ammonium Nitrate

nitrogen oxides. SECTION 11.-TOXICOLOGICAL INFORMATION

| 11. 1. Information on toxicological effects | | | | | | |
|---|--|-------------------------|----------------------|--|--|--|
| Likely routes of exposure | Skin and eye contact; inhalation; and ingestion. | | | | | |
| Acute toxicity | Not clas | Not classified. | | | | |
| Name | LD_{50} oral | LD ₅₀ dermal | LC_{50} inhalation | | | |
| Calcium Nitrate | 302 mg/kg (rat) | - | - | | | |

orcoal (hot).

2217 mg/kg (rat)

Combustible materials, powdered metals, ammonia, hydrazine, reducing agents, phosphorus, sulfur, concentrated acids, copper salts, chlorides, hypochlorites

perchlorates, chromates, nitrites, permanganates, strong alkalis, organic materials,

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



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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 CONSIDERATIO | DNS | | |
| 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 INFORMATIO | N | | |
| 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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| Overla | nd transport | | No addition | onal information available. | | | | | |
|---|------------------------------|--------------------------------------|------------------------|-----------------------------|---------------------------------|---------|--------------------------------|---|--|
| Transp | ort by sea | No additional information available. | | | | | | | |
| Air trar | nsport | No additional information available. | | | | | | | |
| SECTION 1 | 5 REGULATORY INFORM | IATION | | | | | | | |
| 15.1 US Fed | leral regulations | | | | | | | | |
| Calcium Nit | rate (10124-37-5) | | | | | | | | |
| Listed on the | e United States TSCA (Tox | c Substa | nces Control Act) in | ventory | 1 | | | | |
| SARA Section | on 313 - Emission Reportin | g Non | e of the ingredients | is liste | d. | | | | |
| 15.2 Interna | tional regulations | | | | | | | | |
| CANA | DA | | | | | | | | |
| Calcium Nit | rate (10124-37-5) | | | | | | | | |
| Listed on the | Canadian DSL (Domestic S | Substance | es List) inventory. | | | | | | |
| WHMIS Clas | sification | | Class D-1B: Mate | rial cau | ising immediate and serious | toxic | effects (Toxic). | | |
| EU-Reg | gulations | | | | | | | | |
| Calcium Nit | rate (10124-37-5) | | | | | | | | |
| No additiona | information available. | | | | | | | | |
| Classifi | cation according to Regul | ation (EC |) No. 1272/2008 [Cl | LP] | | | | | |
| Ox. Sol. | 3 H272 | | | | | | | | |
| 15.2.2. Natio | onal regulations | | | | | | | | |
| Calcium Nit | rate (10124-37-5) | | | | | | | | |
| | the Canadian Ingredient D | | List. | | | | | | |
| | 6 OTHER INFORMATION | | | | | | | | |
| NFPA | NFPA health hazard | | 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, a | nd dust re | espirator. | e | | | | | |
| Made for: | Quimica Pima | , S.A. de (| C.V. Del Cobre No. 2 | 20 Parc | ue Industrial. Hermosillo, So | onora | , México. 83297. | | |
| Date of issue: December 28, 2011 | | | | | | | | | |
| Revision date: September 01, 2023 | | , 2023 | | | | | | | |
| Revision notes:April 06, 16. Version 2. Updated according to 29 CFR 1910.1200.September 01, 23. Version 3. Syntax and spelling improvements a | | | | ns we | re made. | | | | |
| IMPORTANT N | OTE: Information in this SDS | is from av | ailable published sour | rces and | d is believed to be accurate, b | ut is n | ot exhaustive and will be used | d | |

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End of Safety Data Sheet