

## Calcium nitrate (anhydrous)

Version number: 2.0

### SECTION 1: Identification

#### 1.1 Product identifier

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Identification of the substance | calcium nitrate                           |
| Trade name                      | <b><u>Calcium nitrate (anhydrous)</u></b> |
| CAS number                      | 10124-37-5                                |

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

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Relevant identified uses | Industrial use<br>Chemicals for various applications<br>Production of fertilizer |
| Uses advised against     | Do not use for private purposes (household)                                      |

#### 1.3 Details of the supplier of the safety data sheet

|                                                                                                           |                                                                                      |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Valudor Products, LLC<br>179 Calle Magdalena Suite 100<br>Encinitas, California CA 92024<br>United States | Telephone: +1 (760) 635 8500<br>e-mail: info@valudor.com<br>Website: www.valudor.com |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|

#### 1.4 Emergency telephone number

|                                                       |                         |
|-------------------------------------------------------|-------------------------|
| Emergency information                                 | 800-535-5053 (Infotrac) |
| As above or nearest toxicological information center. |                         |

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Classification |                                   |          |                           |                  |
|----------------|-----------------------------------|----------|---------------------------|------------------|
| Section        | Hazard class                      | Category | Hazard class and category | Hazard statement |
| A.10           | acute toxicity (oral)             | 4        | Acute Tox. 4              | H302             |
| A.3            | serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |
| B.14           | oxidizing solid                   | 3        | Ox. Sol. 3                | H272             |

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

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**Signal word** danger

**Pictograms**

GHS03, GHS05, GHS07



**Hazard statements**

**H272** May intensify fire; oxidizer.  
**H302** Harmful if swallowed.  
**H318** Causes serious eye damage.

**Precautionary statements**

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P220** Keep/store away from clothing/combustible materials.  
**P270** Do not eat, drink or smoke when using this product.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P305+P351+P338+P310** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.  
**P330** Rinse mouth.  
**P370+P378** In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.  
**P501** Dispose of contents/container to an authorized waste treatment facility.

## 2.3 Other hazards

**Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                          |                                   |
|--------------------------|-----------------------------------|
| <b>Name of substance</b> | calcium nitrate                   |
| <b>Identifiers</b>       |                                   |
| CAS No                   | 10124-37-5                        |
| <b>Molecular formula</b> | Ca(NO <sub>3</sub> ) <sub>2</sub> |
| <b>Molar mass</b>        | 164.1 g/mol                       |

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| Impurities and additives |                     |         |
|--------------------------|---------------------|---------|
| Name of substance        | Identifier          | Wt%     |
| ammonium nitrate         | CAS No<br>6484-52-2 | 1 – < 3 |

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Self-protection of the first aider.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

#### Following ingestion

Rinse mouth. Do not induce vomiting.

Call a physician in any case.

#### Notes for the doctor

None.

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

This information is not available.

### 4.3 Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water

#### Unsuitable extinguishing media

water jet, foam, fire extinguishing powder, sand

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## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Oxidizing property.

### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>)

## 5.3 Advice for firefighters

Non-combustible.

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

### Special protective equipment for firefighters

chemical protection suit, self-contained breathing apparatus (SCBA)

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Control of dust.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains.

Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically.

Collect spillage.

Kieselgur (diatomite).

Universal binder.

Sand.

#### Other information relating to spills and releases

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Place in appropriate containers for disposal.  
Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5.  
Personal protective equipment: see section 8.  
Incompatible materials: see section 10.  
Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Do not get in eyes, on skin, or on clothing.

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

#### Handling of incompatible substances or mixtures

##### Keep away from

organic absorbing material, pulp/paper

#### Measures to protect the environment

Avoid release to the environment.

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

#### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Preventive skin protection (barrier creams/ointments) is recommended.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Flammability hazards

Keep reduction valves/valves and fittings free from oil and grease.

#### Incompatible substances or mixtures

Incompatible materials: see section 10.

Observe compatible storage of chemicals.

Keep/store away from clothing/combustible materials.

Take any precaution to avoid mixing with combustibles.

#### Protect against external exposure, such as

heat, humidity

#### Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

#### Ventilation requirements

Provision of sufficient ventilation.

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## Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

Keep cool.

Store in a dry place.

## Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values (Workplace Exposure Limits)

No constituent of the product currently has a known exposure limit.

### 8.2 Exposure controls

#### Appropriate engineering controls

Use local and general ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

| Protective gloves                        |                    |                                          |
|------------------------------------------|--------------------|------------------------------------------|
| Material                                 | Material thickness | Breakthrough times of the glove material |
| NR: natural rubber, latex                | ≥ 0,5 mm           | >480 minutes (permeation: level 6)       |
| CR: chloroprene (chlorobutadiene) rubber | ≥ 0,5 mm           | >480 minutes (permeation: level 6)       |
| IIR: isobutene-isoprene (butyl) rubber   | ≥ 0,5 mm           | >480 minutes (permeation: level 6)       |
| PVC: polyvinyl chloride                  | ≥ 0,5 mm           | >480 minutes (permeation: level 6)       |
| FKM: fluoro-elastomer                    | ≥ 0,4 mm           | >480 minutes (permeation: level 6)       |
| NBR: acrylonitrile-butadiene rubber      | ≥ 0,35 mm          | >480 minutes (permeation: level 6)       |

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection

Protective clothing for use against solid particulates.

##### Respiratory protection

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In case of inadequate ventilation wear respiratory protection.

## Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                                                          |                                       |
|----------------------------------------------------------|---------------------------------------|
| Physical state                                           | solid<br>(granulate)                  |
| Color                                                    | white - greyish - yellow              |
| Odor                                                     | odorless                              |
| Odor threshold                                           | not determined                        |
| Other safety parameters                                  |                                       |
| pH (value)                                               | 6 (in aqueous solution: 5 wt%, 20 °C) |
| Melting point/freezing point                             | ~560 °C                               |
| Boiling point or initial boiling point and boiling range | not determined                        |
| Flash point                                              | not applicable                        |
| Evaporation rate                                         | not determined                        |
| Flammability (solid, gas)                                | non-combustible                       |
| Explosive limits                                         | not determined                        |
| Explosion limits of dust clouds                          | not determined                        |
| Vapor pressure                                           | 0 Pa                                  |
| Density and/or relative density                          |                                       |
| Density                                                  | 2.5 g/cm <sup>3</sup> at 20 °C        |
| Relative density                                         | 2.5 (water = 1)                       |
| Relative vapour density                                  | not relevant (solid)                  |
| Solubility(ies)                                          |                                       |
| Water solubility                                         | >100 g/l                              |
| Partition coefficient                                    |                                       |
| n-octanol/water (log KOW)                                | not relevant<br>(inorganic)           |
| Auto-ignition temperature                                | not determined                        |

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|                                                                 |                                    |
|-----------------------------------------------------------------|------------------------------------|
| <b>Decomposition temperature</b>                                | 196 – 198 °C                       |
| <b>Viscosity</b>                                                | not relevant<br>(solid)            |
| <b>Explosive properties</b>                                     | none                               |
| <b>Oxidizing properties</b>                                     | oxidizer                           |
| <b>Information for relevant hazard classes according to GHS</b> | there is no additional information |

**9.2 Other information** there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

It's a reactive substance.  
Oxidizing property.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  
See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

reducing agents, Combustible materials

### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>).  
Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

If not otherwise specified the classification is based on:  
Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

#### **Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

##### **Acute toxicity**

Shall not be classified as acutely toxic (dermal).  
Harmful if swallowed.

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| Exposure route | Endpoint | Value               | Species | Method             | Source    |
|----------------|----------|---------------------|---------|--------------------|-----------|
| oral           | LD50     | >300 – <2,000 mg/kg | rat     | OECD Guideline 423 | ECHA      |
| dermal         | LD0      | >2,000 mg/kg        | rat     | OECD Guideline 402 | ECHA Chem |

| Acute toxicity of components |           |                |           |              |         |                    |           |
|------------------------------|-----------|----------------|-----------|--------------|---------|--------------------|-----------|
| Name of substance            | CAS No    | Exposure route | End-point | Value        | Species | Method             | Source    |
| ammonium nitrate             | 6484-52-2 | oral           | LD50      | 2,950 mg/kg  | rat     | OECD Guideline 401 | ECHA      |
| ammonium nitrate             | 6484-52-2 | dermal         | LD0       | >5,000 mg/kg | rat     | OECD Guideline 402 | ECHA Chem |

## Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

(OECD Guideline 404 , read-across)

## Serious eye damage/eye irritation

Causes serious eye damage.

(OECD Guideline 405 , read-across)

## Respiratory or skin sensitization

### Skin sensitization

Shall not be classified as a skin sensitizer.

(OECD Guideline 429 , read-across)

## Respiratory sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

(OECD Guideline 471, OECD Guideline 473, OECD Guideline 476)

## Carcinogenicity

### IARC Monographs

not listed

### National Toxicology Program (United States)

not listed

### OSHA Carcinogens

Not listed.

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## Reproductive toxicity

Shall not be classified as a reproductive toxicant.  
(OECD Guideline 422 , read-across)

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

| Exposure route | Endpoint | Value                             | Exposure time | Species | Method             | Notes       |
|----------------|----------|-----------------------------------|---------------|---------|--------------------|-------------|
| oral           | NOAEL    | $\geq 1,000 \text{ mg/kg bw/day}$ | 28 d          | rat     | OECD Guideline 407 | read-across |
| oral           | NOAEL    | $\geq 1,500 \text{ mg/kg bw/day}$ | 28 d          | rat     | OECD Guideline 422 | read-across |

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Other information

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Based on available data, the classification criteria are not met.

| Endpoint | Exposure time | Value              | Species                                | Method | Source    |
|----------|---------------|--------------------|----------------------------------------|--------|-----------|
| LC50     | 48 h          | $95 \text{ mg/l}$  | common carp ( <i>Cyprinus caprio</i> ) | -      | ECHA Chem |
| LC50     | 48 h          | $340 \text{ mg/l}$ | <i>Ceriodaphnia sylvestris</i>         | -      | ECHA Chem |

#### Aquatic toxicity (acute) of components

| Name of substance | CAS No    | Endpoint | Exposure time | Value                 | Species                        | Method | Source    |
|-------------------|-----------|----------|---------------|-----------------------|--------------------------------|--------|-----------|
| ammonium nitrate  | 6484-52-2 | LC50     | 48 h          | $340 \text{ mg/l}$    | <i>Ceriodaphnia sylvestris</i> | -      | ECHA Chem |
| ammonium nitrate  | 6484-52-2 | LC50     | 96 h          | $10,359 \text{ mg/l}$ | Hexagrams of otakii            | -      | ECHA Chem |

#### Aquatic toxicity (chronic)

Based on available data, the classification criteria are not met.

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| Endpoint | Exposure time | Value       | Species                              | Method             | Source    |
|----------|---------------|-------------|--------------------------------------|--------------------|-----------|
| EC50     | 7 d           | 125.8 mg/l  | water flea (Daphnia)                 | -                  | ECHA Chem |
| EC50     | 7 d           | 447.7 mg/l  | fathead minnow (Pimephales promelas) | -                  | ECHA Chem |
| EC50     | 10 d          | >1,048 mg/l | algae                                | -                  | ECHA Chem |
| EC50     | 180 min       | >730 mg/l   | microorganisms                       | OECD Guideline 209 | ECHA Chem |
| LC50     | 7 d           | 117.6 mg/l  | water flea (Daphnia)                 | -                  | ECHA Chem |
| LC50     | 7 d           | 518.1 mg/l  | fathead minnow (Pimephales promelas) | -                  | ECHA Chem |
| NOEC     | 7 d           | 68.9 mg/l   | water flea (Daphnia)                 | -                  | ECHA Chem |
| NOEC     | 30 d          | 257 mg/l    | fathead minnow (Pimephales promelas) | -                  | ECHA Chem |
| LOEC     | 7 d           | 137.6 mg/l  | water flea (Daphnia)                 | -                  | ECHA Chem |
| LOEC     | 30 d          | 536 mg/l    | fathead minnow (Pimephales promelas) | -                  | ECHA Chem |

## Aquatic toxicity (chronic) of components

| Name of substance | CAS No    | Endpoint | Exposure time | Value       | Species                              | Method | Source    |
|-------------------|-----------|----------|---------------|-------------|--------------------------------------|--------|-----------|
| ammonium nitrate  | 6484-52-2 | EC50     | 14 d          | 201.9 mg/l  | Hyaella azteca                       | -      | ECHA Chem |
| ammonium nitrate  | 6484-52-2 | EC50     | 7 d           | 447.7 mg/l  | fathead minnow (Pimephales promelas) | -      | ECHA Chem |
| ammonium nitrate  | 6484-52-2 | EC50     | 10 d          | >1,048 mg/l | algae                                | -      | ECHA Chem |
| ammonium nitrate  | 6484-52-2 | LC50     | 7 d           | 1,041 mg/l  | fathead minnow (Pimephales promelas) | -      | ECHA Chem |
| ammonium nitrate  | 6484-52-2 | LC50     | 7 d           | 117.6 mg/l  | water flea (Daphnia)                 | -      | ECHA Chem |
| ammonium ni-      | 6484-52-2 | NOEC     | 40 d          | 22.8 mg/l   | crustacea: Far-                      | -      | ECHA Chem |

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| Name of substance | CAS No    | Endpoint | Exposure time | Value       | Species                                 | Method | Source    |
|-------------------|-----------|----------|---------------|-------------|-----------------------------------------|--------|-----------|
| trate             |           |          |               |             | fantepenaeus brasiliensis               |        |           |
| ammonium nitrate  | 6484-52-2 | NOEC     | 30 d          | 257 mg/l    | fathead minnow (Pimephales promelas)    | -      | ECHA Chem |
| ammonium nitrate  | 6484-52-2 | LOEC     | 40 d          | ≤45.61 mg/l | crustacea: Farfantepenaeus brasiliensis | -      | ECHA Chem |
| ammonium nitrate  | 6484-52-2 | LOEC     | 30 d          | 536 mg/l    | fathead minnow (Pimephales promelas)    | -      | ECHA Chem |

## 12.2 Persistence and degradability

### Biodegradation

The study does not need to be conducted because the substance is inorganic.

### Persistence

The study does not need to be conducted because the substance is inorganic.

## 12.3 Bioaccumulative potential

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### n-octanol/water (log KOW)

not relevant  
(inorganic)

## 12.4 Mobility in soil

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

## 12.6 Other adverse effects

Data are not available.

### Remarks

None.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

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Completely emptied packages can be recycled.  
Handle contaminated packages in the same way as the substance itself.

## Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number

|           |        |
|-----------|--------|
| DOT       | UN1454 |
| IMDG-Code | UN1454 |
| ICAO-TI   | UN1454 |

### 14.2 UN proper shipping name

|           |                 |
|-----------|-----------------|
| DOT       | Calcium nitrate |
| IMDG-Code | CALCIUM NITRATE |
| ICAO-TI   | Calcium nitrate |

### 14.3 Transport hazard class(es)

|           |     |
|-----------|-----|
| DOT       | 5.1 |
| IMDG-Code | 5.1 |
| ICAO-TI   | 5.1 |

### 14.4 Packing group

|           |     |
|-----------|-----|
| DOT       | III |
| IMDG-Code | III |
| ICAO-TI   | III |

### 14.5 Environmental hazards

-

### 14.6 Special precautions for user

-

### 14.7 Transport in bulk according to IMO instruments

-

### 14.8 Information for each of the UN Model Regulations

#### Transport of dangerous goods by road or rail (49 CFR US DOT) Additional information

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Particulars in the shipper's declaration | UN1454, Calcium nitrate, 5.1, III |
| Danger label(s)                          | 5.1                               |



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Special provisions (SP) 34, B120, IB8, IP3, T1, TP33

ERG No 140

## International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant -

Danger label(s) 5.1



Special provisions (SP) 208, 967

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

EmS F-A, S-Q

Stowage category A

## International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 5.1



Special provisions (SP) A83

Excepted quantities (EQ) E1

Limited quantities (LQ) 10 kg

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** Substance is listed (ACTIVE)

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

**The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)**

Not listed

#### Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings |                        |        |                        |                |
|------------------------------------------------------------|------------------------|--------|------------------------|----------------|
| Name of substance                                          | Name acc. to inventory | CAS No | Remarks                | Effective date |
| calcium nitrate                                            | nitrate compounds      |        | water dissociable; re- | 1995-01-01     |

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| Toxics Release Inventory: Specific Toxic Chemical Listings |                        |        |                                        |                |
|------------------------------------------------------------|------------------------|--------|----------------------------------------|----------------|
| Name of substance                                          | Name acc. to inventory | CAS No | Remarks                                | Effective date |
|                                                            |                        |        | portable only when in aqueous solution |                |

## Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

### List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Not listed

## Clean Air Act

Not listed

## Right to Know Hazardous Substance List

### Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | Name acc. to inventory                | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Thres hold | De Minimis Concentration Threshold |
|-------------------|---------------------------------------|--------|----------|-----------------|----------------------|------------------------------------|
| calcium nitrate   | Nitrate compounds (water dissociable) | -      | 1090     | -               | -                    | 1.0 %                              |

## Hazardous Substances List (MN-ERTK)

Not listed

## Hazardous Substance List (NJ-RTK)

| Name of substance | Name acc. to inventory | CAS No     | Remarks | Classifications | Listed in | Substance number | DOT number |
|-------------------|------------------------|------------|---------|-----------------|-----------|------------------|------------|
| calcium nitrate   | calcium nitrate        | 10124-37-5 | -       | R1.             | 3<br>17   | 0324             | 1454       |

### Legend

- 17 "2008 Emergency Response Guidebook," Research and Special Programs Administration, U.S. Department of Transportation, 2008.
- 3 Office of Hazardous Materials Safety, Research and Special Programs Administration, U.S. Department of Transportation, 49 CFR 172.101-Hazardous Materials Table, October 1, 2008.
- R1 Reactive - First Degree

## Hazardous Substance List (Chapter 323) (PA-RTK)

Not listed

## Hazardous Substance List (RI-RTK)

Not listed

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## California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Not listed

## Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

Not listed

### SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2021-09-09

Date of last revision: 2025-07-11.

### Abbreviations and acronyms

| Abbr.            | Descriptions of used abbreviations                                                                                                                                               |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT    | 49 CFR U.S. Department of Transportation                                                                                                                                         |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                           |
| DEP CODE         | Department of Environmental Protection Code                                                                                                                                      |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                       |
| DOT              | Department of Transportation (USA)                                                                                                                                               |
| EC50             | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EmS              | Emergency Schedule                                                                                                                                                               |
| ERG No           | Emergency Response Guidebook - Number                                                                                                                                            |
| GHS              | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                        |
| HHS              | Higher hazard substance                                                                                                                                                          |
| IARC             | International Agency for Research on Cancer                                                                                                                                      |
| IARC Mono-graphs | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans                                                                                                                |
| IATA             | International Air Transport Association                                                                                                                                          |
| IATA/DGR         | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                   |
| ICAO             | International Civil Aviation Organization                                                                                                                                        |
| ICAO-TI          | Technical instructions for the safe transport of dangerous goods by air                                                                                                          |
| IMDG             | International Maritime Dangerous Goods Code                                                                                                                                      |
| IMDG-Code        | International Maritime Dangerous Goods Code                                                                                                                                      |
| LC50             | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| LD50             | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                                 |
| LHS              | Lower hazard substance                                                                                                                                                           |

# Calcium nitrate (anhydrous)

Version number: 2.0

| Abbr. | Descriptions of used abbreviations                            |
|-------|---------------------------------------------------------------|
| LOEC  | Lowest Observed Effect Concentration                          |
| NOAEL | No Observed Adverse Effect Level                              |
| NOEC  | No Observed Effect Concentration                              |
| OSHA  | Occupational Safety and Health Administration (United States) |
| PBT   | Persistent, Bioaccumulative and Toxic                         |
| vPvB  | Very Persistent and very Bioaccumulative                      |

## Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200 (May 20, 2024 eff. July 19, 2024).

Transport of dangerous goods by road or rail (49 CFR US DOT).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                          |
|------|-------------------------------|
| H272 | May intensify fire; oxidizer. |
| H302 | Harmful if swallowed.         |
| H318 | Causes serious eye damage.    |

## Responsible for the safety data sheet

Chemical Regulatory Compliance Com- Telephone: +1 (630) 410-1660  
pany  
Jasper, GA e-Mail: GHS@crc-us.com  
USA Website: www.crc-us.com

## Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.