

Calcium Nitrate

SECTION 1. IDENTIFICATION

Product Identifier	Calcium Nitrate
Other Means of Identification	Calcium Nitrate
Other Identification	Envirofloc
Recommended Use	Drilling Fluid Additive.
Supplier Identifier	Bri-Chem Supply Corp, 9351 Grant Street, Ste 380, Thornton, CO, 80229, 720-236-1012, www.brichemsupplycorp.com
Emergency Phone No.	ChemTrec, (800) 424-9300, 24/7
SDS No.	0790

SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Oral) - Category 4; Serious eye damage - Category 1

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Harmful if swallowed.

Causes serious eye damage.

Other Hazards

Hazard Not Otherwise Classified (HNOC): Product forms slippery surface when combined with water.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Nitric acid, ammonium calcium salt	15245-12-2	100		

Notes

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

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Move to fresh air. Call a Poison Centre or doctor if you feel unwell.

Skin Contact

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Call a Poison Centre or doctor if you feel unwell.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay flushing or attempt to remove the lens. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If conscious, give large quantities of water or milk. Remove by gastric lavage or emesis. Maintain blood pressure. Immediately call a Poison Centre or doctor.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled:

Can irritate the nose and throat.

If on skin:

May cause mild irritation. Symptoms include pain, redness, and swelling.

If in eyes:

May cause mild irritation.

If swallowed:

Symptoms may include nausea, vomiting, stomach cramps and diarrhea. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use flooding quantities of water spray or fog.

Specific Hazards Arising from the Product

Oxides of nitrogen may be formed upon combustion.

Special Protective Equipment and Precautions for Fire-fighters

A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Only use where there is adequate ventilation. Avoid generating dusts. Wear personal protective equipment to avoid direct contact with this chemical.

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials (see Section 10: Stability and

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Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White. Particle Size: Solid (Hygroscopic)
Odour	Odourless
Odour Threshold	Not applicable
pH	5 - 7
Melting Point/Freezing Point	400 °C (melting)
Initial Boiling Point/Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Relative Density (water = 1)	Not available
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Viscosity	Not available (kinematic)
Other Information	
Physical State	Solid
Bulk Density	68 lb/ft ³

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid contamination by any source including metals, dust and organic materials.

Incompatible Materials

In high pH environments, material will release ammonia (NH₃). Alkalis, combustible materials, reducing materials, organic materials, acids.

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Hazardous Decomposition Products

Oxides of nitrogen may be produced in fires.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LC50: Not applicable.

Toxicity Data

Ingredient Name:	Test	Result	Route	Species
Preparation	LD50	>2100 mg/kg	Oral	Rat
Calcium Nitrate	LD50	9285 mg/kg	Oral	Rat
Ammonium Nitrate	LD50	2217 mg/kg	Oral	Rat

Not considered to be toxic to humans.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

May cause mild irritation. Symptoms include pain, redness, and swelling.

Serious Eye Damage/Irritation

May cause mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Can irritate the nose and throat.

Ingestion

Symptoms may include nausea, vomiting, stomach cramps and diarrhea. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

None known.

Carcinogenicity

Not specifically listed.

No information was located for: Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

The product does not show any bioaccumulation phenomena. the product is not expected to harm the environment when used properly according to directions.

Persistence and Degradability

No known significant effects or critical hazards.

Mobility in Soil

This product may move with surface or groundwater flows because its water solubility is: high

Other Adverse Effects

No known significant effect or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

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Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

USA

Additional USA Regulatory Lists

California Proposition 65: Yes.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 2

SDS Prepared By Bri-Chem Supply Corp

Date of Preparation November 30, 2020

Disclaimer This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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