

Safety Data Sheet

10% Calcium Glucoheptonate

SDS Prepared: 06/18/2026

SDS Version: 1.0

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 10% Calcium Glucoheptonate

CHEMICAL FAMILY: Complexed Calcium Glucoheptonate

EPA REGISTRATION NUMBER: Not Regulated

Manufactured by:
Reliant Ag Solutions, LLC
2230 Carolina Leaf Road
Greenville, NC 27834
Phone: 1-833-618-9691

Emergency Telephone Numbers
Chemtrec (24 hours)
1-800-424-9300
Reliant Ag Solutions, LLC (Weekdays – Eastern Standard Time)
1-833-618-9691

2. HAZARDS IDENTIFICATION SUMMARY

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US Classification

Acute Toxicity - Oral 4 H302
Eye Irritant 1 H318

LABEL ELEMENTS

GHS-US Labeling

Hazard Pictogram (GHS-US)



GHS05



GHS07

SIGNAL WORD (GHS-US)

DANGER

HAZARD STATEMENTS (GHS-US)

H302 - Harmful if swallowed
H319 - Causes serious eye damage.

PRECAUTIONARY STATEMENTS (GHS-US)

P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301++P330+P317 - IF SWALLOWED: Rinse mouth. Get medical help.
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317 - Get medical help.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV/PEL</u>
Calcium Glucoheptonate	Proprietary	Mixture	NOL/NOL

4. FIRST AID MEASURES

EYES:	Immediately flush eyes with plenty of water for at least fifteen minutes, holding eyelids apart to ensure flushing of the entire eye surface. Remove contact lenses, if present and easy to do. Do not let victim rub eyes. Seek medical attention.
SKIN:	Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.
INGESTION:	Call a physician immediately. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
INHALATION:	Remove person from area of exposure. Give artificial respiration if necessary. If breathing is difficult, give oxygen if a qualified operator is available. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method):	Not available
FLAMMABLE LIMITS (LFL & UFL):	Not determined
EXTINGUISHING MEDIA:	Use flooding quantities of water for extinction. Do NOT use a chemical extinguisher or foam or attempt to smother the fire with steam or sand.
HAZARDOUS COMBUSTION PRODUCTS:	This product is a sugar complex and should not be flammable or combustible unless completely dehydrated at elevated temperatures.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained positive-pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Clear fire area of unprotected personnel. Cool fire-exposed containers with water. Attack from upwind.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
LARGE SPILLS:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
ENVIRONMENTAL PRECAUTIONS:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

7. HANDLING AND STORAGE

HANDLING:	Keep tightly closed in the original container when not in use. Use with adequate ventilation. Avoid prolonged or repeated contact with skin or eyes. Wash thoroughly with soap and water after handling. Wash hands before breaks and at the end of work. Do not reuse container. Use appropriate personal protective equipment. Do not eat, drink, or smoke when using this product.
STORAGE:	Keep in original container tightly closed in a cool, dry place when not in use. Keep out of direct sunlight. Do not store in unlabeled containers. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**PERMISSIBLE EXPOSURE LIMIT:
SIGNS AND SYMPTOMS OF
EXPOSURE:**

NOL

Eye and oral irritant. Contact with eyes is painful and irritating. Harmful if swallowed and may cause burns to the mouth, throat, and stomach.

Overexposure: Eye pain, watering, and/or redness. Stomach pains.

**MEDICAL CONDITIONS
GENERALLY AGGRAVATED BY
EXPOSURE:**

Preexisting eye and skin conditions may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.

PRIMARY ROUTES OF ENTRY:

Dermal and oral.

ENGINEERING CONTROLS:

Use adequate exhaust ventilation to prevent inhalation of product vapors.

RESPIRATORY PROTECTION:

None required with adequate ventilation. Use NIOSH-approved respiratory protection equipment if misty conditions exist.

EYE PROTECTION:

Avoid contact with eyes. Wear full-face shield or chemical safety goggles when handling. Do not wear contact lenses.

SKIN PROTECTION:

Avoid contact with skin. USDA-accepted nitrile or neoprene rubber gloves are recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND PHYSICAL STATE:

Dark red liquid

ODOR:

Slight odor

SPECIFIC GRAVITY (Water=1):

1.45-1.55

VAPOR PRESSURE:

No data available

VAPOR DENSITY (Air = 1):

No data available

% VOLATILITY (V/V):

No data available

BOILING POINT:

No data available

MELTING POINT:

No data available

SOLUBILITY:

Completely miscible in water, fluid fertilizers, and alkaline nitrogen solutions.

pH:

4.0 - 4.5

VISCOSITY @ 77°F (25°C):

No data available

Note: These physical data are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

Extreme temperatures

INCOMPATIBILITY:

Strong organic acids, oxidizing agents, and precipitates may form upon interaction with phosphate fertilizers.

**HAZARDOUS DECOMPOSITION
PRODUCTS:**

Should not be produced under normal storage and use conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀:

Harmful if swallowed

ACUTE DERMAL LD₅₀:

Not classified

ACUTE INHALATION LC₅₀:

Not classified

EYE IRRITATION:

Causes serious eye damage.

CARCINOGENIC POTENTIAL:

This product is not carcinogenic, teratogenic, or mutagenic as determined by OSHA, NTP, or IARC.

SKIN IRRITATION/SENSITIZATION:

Not classified

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Do not reuse container. Place in trash or offer for recycling. Incinerate contaminated solids in accordance with local, state, and federal regulations.

Waste Disposal Methods: Dispose of in accordance with local, state, and federal regulations. Incineration in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted treatment facilities is recommended. Material collected with absorbent may be disposed of in a permitted landfill in accordance with federal, state, and local regulations. Triple rinse container and dispose of it in accordance with all local, state, and federal regulations or offer for recycling.

14. TRANSPORTATION INFORMATION

IN ACCORDANCE WITH DOT, IMDG, IATA: Not regulated for transport by USDOT as a hazardous material.
FREIGHT CLASSIFICATION: Liquid Fertilizer NOIBN
NMFC No. 68100 Class 50

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA
2 Health 0 Reactivity
1 Flammability

HMIS
2 Health 0 Reactivity
1 Flammability B PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate: Y Fire: N Sudden Release of Pressure: N
Delayed: N Reactive: N
None

Reportable Quantity (RQ) under U.S.

CERCLA:

SARA, Title III, Section 313:

Contains no chemical subject to SARA 313.

SARA, Title III, Section 302:

EHS: None
TPQ: 10,000 lbs.

RCRA Waste Code:

Not listed

CA Proposition 65:

Not listed

16. OTHER INFORMATION

SDS STATUS:

New

REASON FOR CHANGE:

New Product

PREPARED BY:

Emma Simpson, Chemist

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