SAFETY DATA SHEET  Calcium Thiosulfate, 6% Calcium 10% Sulfur

1. Identification

Product name: Calcium Thiosulfate, 6% Calcium 10% Sulfur
Product code: 6CA10S

Other Identification:
- Chemical Family: Inorganic salt solution
- Formula: CAS_2O_3

Recommended use:
- Turf & Horticulture - Inorganic Salt Solution

Manufacturer & Distributor information:
- Plant Food Company, Inc.
  38 Hightstown-Cranbury Station Road
  Cranbury, NJ 08512 United States
  Telephone Information: 1-609-448-0935
  Website: www.plantfoodco.com
  E-mail: pfc@plantfoodco.com
  Contact person: Grant Platz, Ted Platz

Emergency phone number: 1-800-424-9300 CCN725928
Call CHEMTREC Day or Night Within USA and Canada: or +1 703-527-3887 (collect calls accepted)
Other Countries: 1-609-448-0935

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards:
- Acute toxicity, oral
- Serious eye damage/eye irritation
- Specific target organ toxicity, single exposure

Environmental hazards: Hazardous to the aquatic environment, acute hazard
OSHA defined hazards: Not classified.

Signal word: Warning
Hazard statement: Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.
Precautionary statement:
- Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not enterengo of contaminated area. Use respiratory protective equipment. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If swallowed: Call a poison center/doctor if you feel unwell. If mouth: Keep mouth under observation. Symptoms may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. Composition/information on ingredients

Mixtures
- Chemical Name: Thiosulfuric acid calcium salt
- Synonym: Common Name
  - Calcium thiosulfate
  - Water
- CAS Number:
  - 10124-41-1
  - 7732-18-5
- EINECS No:
  - 233-333-7
  - 231-791-2
- %:
  - 20-30
  - 70-80

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has stopped, perform artificial respiration. Remove contaminated clothing using a safety shower. Continue immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if present. If in eyes: Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

Ingestion: Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

Most important symptoms/effects, acute and delayed
- Irritation of eyes and mucous membranes.
- Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

Indication of immediate medical attention and special treatment needed

General information

5. Fire-fighting measures

Flammable Properties:
NFPA: Health - 0  Flammability - 0  Reactivity -

Suitable extinguishing media
- Not flammable, use media suitable for combustibles involved in fire.

Unsuitable extinguishing media
- Not applicable.

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Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Keep containers/storage vessels infire area cooled with water spray.

Fire-fighting equipment/instructions
Move container from fire area if it can be done without risk.

Specific methods
Heating this product will evolve ammonia

General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep people away from and upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective garments. Stop the flow of material, if this is without risk.

Methods and materials for containment and cleaning up
Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling
Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Do not empty into drains.

Conditions for safe storage, including any incompatibilities
Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Provide eyewash station.

Individual protection measures, such as personal protective equipment
Eye/face protection
Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin protection
For prolonged or repeated skin contact use suitable protective gloves.

Hand protection
Wear suitable protective clothing. Wash contaminated clothing prior to reuse.

Other
Wear appropriate thermal protective clothing, when necessary.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations
When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

**Appearance**
Aqueous solution.

**Physical state**
Liquid.

**Form**
Liquid.

**Color**
Colorless liquid

**Odor**
Concrete to no odor

**Odor threshold**
Not available.

**pH**
6.5 - 8.0

**Melting point/freezing point**
30 °F - 60°F (-1.1°C - 15.6°C) (Typical)

**Initial boiling point and boiling range**
210°F - 220°F (98.9°C - 104.4°C)

**Flash point**
Not available.

**Evaporation rate**
Not determined.

**Flammability (solid, gas)**
Not applicable.

**Flammability limit - lower (%)**
Not applicable.

**Flammability limit - upper (%)**
Not applicable.

**Explosive limit - lower (%)**
Not applicable.

**Explosive limit - upper (%)**
Not applicable.

**Vapor pressure**
37 mm Hg @ 100° F

**Vapor density**
Not available.

**Relative density**
1.25 - 1.26 (10.4 - 10.5 lbs/gal)

**Solubility**
Complete

**Solubility (water)**
100%

**Partition coefficient (n-octanol/water)**
Not available.

**Auto-ignition temperature**
Not available.

**Decomposition temperature**
Data not available
Viscosity: 2.11 cSt at 25°C (77°F)

Other information:
- Pounds per gallon: 10.4 - 10.5 lbs/gal
- Shelf life: > 2 years

10. Stability and reactivity
Reactivity: Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section).
Chemical stability: Material is stable under normal conditions.
Possibility of hazardous reactions: Strong oxidizers such as nitrates, nitrates or chlorates can cause explosive mixtures if heated to dryness.
Conditions to avoid: Temperatures above 120°F (49°C) and below 60°F (15°C).
Incompatible materials: Heating this product will evolve ammonia. Heating to dryness will produce ammonia, ammonium sulfate, sulfur and oxides of sulfur.

11. Toxicological information
Information on likely routes of exposure:
- Oral: Rat LD_{50}: > 2,000 mg/kg.
- Inhalation: Data not available.
- Skin contact: Data not available.
- Eye contact: Data not available.
Chronic/Carcinogenicity: Data not available.
Teratology: Data not available.
Reproduction: Data not available.
Mutagenicity: Data not available.

12. Ecological information
Ecotoxicity: Data not available.
Persistence and degradability: Data not available.
Bioaccumulative potential: Data not available.
Mobility in soil: Data not available.
Other adverse effects: Data not available.

13. Disposal considerations
Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information
DOT: Not regulated as dangerous goods.
IATA: Not regulated as dangerous goods.
IMDG: Not regulated as dangerous goods.

15. Regulatory information

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D): Not regulated.
SARA 304 Emergency release notification: Not regulated.
SARA 302 Extremely hazardous substance: Ammonia (CAS #7664-41-7) - 14.6%.
Section 313 (FORM R): Not listed.
Other federal regulations: Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act (SDWA) Not regulated.
US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other

16. Other information, including date of preparation or last revision

| Issue date  | 6/1/2015 |
| Revision date | 7/15/2013 |
| Version # | 2 |

Disclaimer
While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties