

# SAFETY DATA SHEET

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## TST Green RV Toilet Treatment

### Section 1- Chemical Product and Company Identification

**Product Name:** TST RV Toilet Treatment

**Supplier:** Camco Manufacturing, Inc.  
121 Landmark Drive  
Greensboro, NC 27409  
1-800-334-2004

**Product Use:** Toilet Treatment / Odor Control

**Product Code:** 40221, 40222, 40224, 40225, 40226, 40227, 40228 and 40229

**Date of Preparation/Revision:** May 13, 2013

**In case of Emergency:** 1-800-535-5053

### Section 2- Hazards identification

#### Emergency Overview



Irritant

**WARNING!** This product may be harmful or fatal if swallowed. This product is irritating to the eyes, respiratory system and skin. This product is an aqueous solution which will not burn. However, if evaporated to dryness this product is an oxidizer and can sustain combustion. Irritating and toxic fumes and gases may be released upon thermal processing or during combustion.

#### **Potential Health Effects: Eyes**

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

#### **Potential Health Effects: Skin**

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage. Repeated contact with this material may produce dermatitis.

#### **Potential Health Effects: Ingestion**

This product may be harmful or fatal if swallowed. If ingested, this product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

#### **Potential Health Effects: Inhalation**

This product is irritating to the respiratory system. Inhalation of vapors or mists of the product can cause sneezing, coughing and difficulty breathing.

#### **Medical Conditions Aggravated by Exposure**

Pre-existing skin and eye conditions.

#### **HMS Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

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See toxicological information (section 11)

### Section 3 - Composition, Information on Ingredients

<u>Name</u>	<u>CAS Number</u>	<u>% Volume</u>
Calcium Nitrate Tetrahydrate	13477-34-4	< 50.0

#### **Component Related Regulatory Information**

This product may be regulated, have exposure limits or other information identified as the following: Water Dissociable Nitrate Compounds.

#### **Component Information/Information on Non-Hazardous Components**

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This product is considered hazardous under the criteria specified in the Canadian Workplace Hazardous Materials Information System (WHMIS).

### Section 4 - First Aid Measures

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

- Eye contact** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
- Skin contact** For skin contact, wash immediately with soap and water. If irritation persists get medical attention.
- Ingestion** If material is ingested, immediately contact a physician or poison control center. Give one to two glasses of water or milk. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.
- Inhalation** If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. If irritation persists get medical attention.
- Notes to Physician** Provide general supportive measures and treat symptomatically.

### Section 5 - Fire-Fighting Measures

- Flash Point:** Not flammable  
**Upper Flammable Limit (UFL):** Not applicable  
**Auto Ignition:** Not flammable  
**Rate of Burning:** Not applicable  
**General Fire Hazards**
- Method Used:** Not applicable  
**Lower Flammable Limit (LFL):** Not applicable  
**Flammability Classification:** Non-flammable

This product is an aqueous solution which will not burn. However, if evaporated to dryness this product is an oxidizer and can sustain combustion.

#### **Hazardous Combustion Products**

Decomposition may yield calcium compounds and oxides of nitrogen.

#### **Extinguishing Media**

Dry chemical, foam, carbon dioxide, water fog.

#### **Fire Fighting Equipment/Instructions**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0 Other: none**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Section 6 - Accidental release measures

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### Containment Procedures

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

### Clean-Up Procedures

Absorb spill with inert material such as: lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

### Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

### Special Procedures

Isolate exposure. Wear appropriate personal protective equipment. Follow all Local, State, Federal and Provincial regulations for disposal.

## Section 7- Handling and Storage

### Handling Procedures

Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

### Storage Procedures

Store in a cool, dry area. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not reuse empty containers. Do not store this material in open or unlabeled containers.

## Section 8 - Exposure Controls / Personal Protection

### Exposure Guidelines

#### A: General Product Information

Keep formation of airborne mists to a minimum.

#### B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

#### Engineering Controls

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

#### Personal Protective Equipment: Skin

Wear impervious (neoprene) gloves, impervious apron.

#### Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical

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certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

### Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

## Section 9 - Physical and Chemical Properties

Appearance:	Transparent Green Liquid
Odor:	Fresh Fragrance
Physical State:	Liquid
pH: (@59°F / 15°C)	6.0 to 8.0
Vapor pressure:	Not Applicable
Vapor density:	Not Applicable
Boiling Point:	>212°F (>100°C)
Melting Point:	Not Determined
Solubility:	Completely
Specific Gravity: (@59°F / 15°C)	1.130 – 1.140
Freeze Point:	5°F (-15°C)
Evaporation Rate:	Similar to Water

### Physical Properties: Additional Information

No additional information available

## Section 10 - Stability and Reactivity

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

Avoid contact with extreme heat and incompatible materials.

### Incompatibility

This product is incompatible with flammable and combustible materials, strong reducing agents and finely powdered metals.

### Hazardous Decomposition

Decomposition may yield calcium compounds and oxides of nitrogen.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### Acute and Chronic Toxicity

#### A: General Product Information

No information available for the product.

The nitrate component of this product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

#### B: Component Analysis - LD50/LC50

##### Calcium Nitrate Tetrahydrate (13477-34-4)

Oral LD50 Rat : 3900 mg/kg

### Carcinogenicity

#### A: General Product Information

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No carcinogenicity data available for this product.

### **B: Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

### **Chronic Toxicity**

No information available for the product.

### **Epidemiology**

No epidemiological data is available for this product.

### **Neurotoxicity**

No data available for this product.

### **Mutagenicity**

No data available for this product.

### **Teratogenicity**

No data available for this product.

### **Other Toxicological Information**

No additional information available.

## **Section 12 - Ecological Information**

### **Ecotoxicity**

#### **A: General Product Information**

In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life.

#### **B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

No ecotoxicity data are available for this product's components.

### **Environmental Fate**

No data available for this product.

## **Section 13 - Disposal Considerations**

### **US EPA Waste Number & Descriptions**

#### **A: General Product Information**

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

#### **B: Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

### **Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## **Section 14 - Transport information**

### **US DOT Information**

This material is not hazardous as defined by 49CFR 172.101 by the US Department of Transportation.

### **IMDG**

***Refer to Current IMDG regulations for full shipping description requirements***

### **IATA**

***This material is not prepared or packaged for air transportation***

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*International shipping requirements must be determined by the party offering the material for transportation*

### Section 15 - Regulatory Information

#### U.S. Federal regulations

##### **A: General Product Information**

No additional information available.

##### **B: Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

##### **Calcium Nitrate Tetrahydrate (13477-34-4)**

**SARA 313:** form R reporting required for 1.0% de minimis concentration; Chemical Category N511 (related to Water Dissociable Nitrate Compounds)

**SARA 311/312:** Acute Health Yes Chronic Health No Fire No Pressure No Reactive No

#### State regulations

**Connecticut Carcinogen Reporting:** This material is not listed.

**Connecticut Hazardous Material Survey:** This material is not listed.

**Florida substances:** This material is not listed.

**Illinois Chemical Safety Act:** This material is not listed.

**Illinois Toxic Substances Disclosure to Employee Act:** This material is not listed.

**Louisiana Reporting:** This material is not listed.

**Louisiana Spill:** This material is not listed.

**Massachusetts Spill:** This material is not listed.

**Massachusetts Substances:** This material is listed.

**Michigan Critical Material:** This material is not listed.

**Minnesota Hazardous Substances:** This material is not listed.

**New Jersey Hazardous Substances:** This material is listed.

**New Jersey Spill:** This material is not listed.

**New Jersey Toxic Catastrophe Prevention Act:** This material is not listed.

**New York Acutely Hazardous Substances:** This material is not listed.

**New York Toxic Chemical Release Reporting:** This material is not listed.

**Pennsylvania RTK Hazardous Substances:** This material is listed.

**Rhode Island Hazardous Substances:** This material is not listed

**California Prop 65 Warning:** This material is not listed

#### Additional Regulatory Information

##### **A: General Product Information**

All components are on the U.S. EPA TSCA Inventory List.

Calcium Nitrate Tetrahydrate is a hydrate of an anhydrous form that is on the US TSCA and Canadian DSL inventories, and can be referenced under the parent compound name.

### Section 16 - Other information

<b>NFPA CODES:</b> Health	1
Flammability	0
Reactivity	0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

**Date of Preparation/Revision:** **May13, 2013** (Supersedes all previous MSDS)

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## **TST Green RV Toilet Treatment**

### **DISCLAIMER**

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