



# Material Safety Data Sheet

According to EC Regulation 1907/2006

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the substance or preparation

MSDS Ref. No.: 3106.01.42  
 Product name: Greenmaster® Liquid Calcium

### Use of the Substance/Preparation

Recommended use: Liquid concentrate

### Company/Undertaking Identification

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## 2. HAZARDS IDENTIFICATION

### Classification

### Most important hazards

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Ammonium nitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	5 - 10%	229-347-8	O;R08

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

<b>General advice:</b>	If you feel unwell, seek medical advice (show the label where possible).
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.
<b>Inhalation:</b>	Not applicable.
<b>Skin contact:</b>	If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Eye contact:</b>	Flush eye(s) immediately with plenty of water.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

The product itself does not burn. Coordinate fire extinguishing measures to fire in surrounding area.

**Unsuitable extinguishing media:**

Not applicable

**Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:**

Nitrogen oxide. Ammonia.

**Special protective equipment for firefighters:**

Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Contaminated surfaces will be extremely slippery.

**Environmental precautions:**

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:**

Wipe up with absorbent material (e.g. cloth, fleece). Take up mechanically and collect in suitable container for disposal. Do not use flammable material (wood shavings) for liquid absorption.

## 7. HANDLING AND STORAGE

**Handling:****Technical measures/precautions:**

No special technical protective measures required.

**Safe handling advice:**

No information available

**Storage:****Technical measures/storage conditions:**

Store in original container. Keep at temperatures above 0 °C. Keep away from food, drink and animal feeding stuffs. In crystalline form, enhances combustibility of other substances. Keep from drying out. Protect from contamination. Keep in a dry place. Keep away from frost.

**Incompatible products:**

No information available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:** Ensure adequate ventilation.

### Occupational exposure controls

#### Personal protective equipment

<b>Respiratory protection:</b>	Not required.
<b>Hand protection:</b>	Not required.
<b>Eye/face protection</b>	Not required.
<b>Skin and body protection:</b>	Not required.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. General industrial hygiene practice. Avoid contact with skin and eyes.

### Exposure limit values

*Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub>*  
Czech Republic OEL

= 10.0 mg/m<sup>3</sup> TWA

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Clear
<b>Color:</b>	Green
<b>Odor:</b>	Not significant

### Important Health Safety and Environmental Information

<b>Boiling point/range:</b>	105 (°C)
<b>Density:</b>	1.32 g/cm <sup>3</sup>

### Other information

<b>pH:</b>	6.0 (+/-0.5)
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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Do not allow solution to dry out. Prevent uncontrolled heating.
<b>Materials to avoid:</b>	Strong bases. Galvanized container (corrosion). Soaking of flammable material (fire risk after drying).
<b>Hazardous decomposition products:</b>	No decomposition if stored normally

## 11. TOXICOLOGICAL INFORMATION

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### Component information

*Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub>*

**LD50/oral/rat =** 2410 mg/kg

### **Other information on acute toxicity:**

No information available

### Product information

#### Local effects

##### **Skin effects:**

May cause skin irritation in susceptible persons

##### **Eye effects:**

May cause eye irritation with susceptible persons

##### **Inhalation:**

May cause sensitization by inhalation

##### **Ingestion:**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

## 12. ECOLOGICAL INFORMATION

### Product information

#### **Aquatic toxicity:**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Water Endangering Class (WGK):** 1 (Scotts classification )

### Component information

*Ammonium nitrate, NH<sub>4</sub>NO<sub>3</sub>*

#### **Ecotoxicity effects**

EC50/48h/daphnia =100 mg/l

LC50/96h/rainbow trout =10 mg/l

EC50/72h/algae =74000 µg/l

Does not bioaccumulate.

## 13. DISPOSAL CONSIDERATIONS

### **Waste Disposal Methods:**

Dispose of in accordance with local regulations.

### **Contaminated packaging:**

Rinse empty containers with water and use the rinse-water to prepare the working solution. Can be offered for recycling, re-conditioning or puncture.

## 14. TRANSPORT INFORMATION

### Product information

#### **Physical State:**

Liquid

## 14. TRANSPORT INFORMATION

### ADR/RID

UN-No: Not classified for transport

### IATA

UN-No: Not classified for transport

### IMO / IMDG

UN-No: Not classified for transport

## 15. REGULATORY INFORMATION

In accordance with local and national regulations

## 16. OTHER INFORMATION

### Text of R Phrases mentioned in Section 3

R 8 - Contact with combustible material may cause fire.

**Reason for revision:** \*\*\* Indicates changes since the last revision. This version replaces all previous versions

**Prepared by:** Regulatory Affairs Department.

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**End of Safety Data Sheet**