



# 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.: 3100.01.42  
 Product name: Greenmaster® Liquid High N

### 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
Magnesium nitrate hexahydrate, Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	13446-18-9	10 - 25%	233-826-7	O;R08
Ammonium nitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	> 25%	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 away from heat. 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>	1.31 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

### 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

**14. TRANSPORT INFORMATION**

**Physical State:** Liquid

**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**