

# Safety Data Sheet

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## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Name** Greenmaster Liquid 12-4-6+TE  
**Product Code:** 31040110DA  
**Pure substance/mixture** Mixture.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Fertilizer (PC12). Restricted to professional users.  
**Uses Advised Against:** Consumer use [SU 21].

### 1.3. Details of the supplier of the safety data sheet

Everris International B.V. Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190.

**For further information, please contact:** INFO-MSDS@EVERRIS.COM.

**1.4. Emergency telephone number:** IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h).

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Mixture

*Regulation (EC) No 1272/2008 (CLP)*

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**Signal Word:** None

### EU Specific Hazard Statements:

EUH210 - Safety data sheet available on request

### Precautionary Statements:

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical Name	EC-No.	CAS No	Weight %	Classification according Regulation (EC) 1272/2008 [CLP]	REACH registration number
Urea	200-315-5	57-13-6	10 - 25%	Not classified	01-2119463277-33
Manganese-EDTA, Mn-EDTA	239-407-5	15375-84-5	< 0.1%	Not classified	01-2119493600-40
Disodium octaborate tetrahydrate	234-541-0	12280-03-4	< 0.1%	Repr. 1B (H360FD)	01-2119490860-33
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	< 0.1%	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119963944-23
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub>	231-551-7	7631-95-0	< 0.1%	Not classified	01-2119489495-21

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice:</b>	First aid measures should be executed by trained personnel only.
<b>Inhalation</b>	If not breathing, give artificial respiration. If symptoms persist, call a physician. If fumes from reactions are inhaled, move to fresh air immediately.
<b>Skin Contact:</b>	If skin irritation persists, call a physician.
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

None under normal processing

### 4.3. Indication of any immediate medical attention and special treatment needed

None under normal processing.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

<u>Suitable Extinguishing Media:</u>	Coordinate fire extinguishing measures to fire in surrounding area.
<u>Unsuitable Extinguishing Media:</u>	High volume water jet.

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 5.3. Advice for firefighters

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions:</b>	Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to safe areas.
<b>For Emergency Responders:</b>	Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Do not allow material to contaminate ground water system.

### 6.3. Methods and material for containment and cleaning up

<u>Methods for Containment:</u>	Prevent further leakage or spillage if safe to do so.
<u>Methods for Cleanup:</u>	Take up mechanically and collect in suitable container for disposal.

### 6.4. Reference to other sections

§ 8, 12, 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

General hygiene considerations:	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8.
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When using, do not eat, drink or smoke.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep container tightly closed in a dry and well-ventilated place.  
For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well. Keep away from flammable material.

Packaging Materials:  
LGK (Germany)

Store in original container.  
Exempt

### 7.3. Specific end use(s)

Specific use(s)  
Exposure scenario

Fertilizer; [www.everris.com](http://www.everris.com); Read and follow label instructions  
Mixture. Not required.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

<u>Urea</u>	
Bulgaria - OEL- TWAs	10.0 mg/m <sup>3</sup> TWA
Latvia - OEL - TWAs	10 mg/m <sup>3</sup> TWA
<u>Manganese-EDTA, Mn-EDTA</u>	
Czech Republic OEL	1 mg/m <sup>3</sup> TWA
Ireland	TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup>
<u>Copper-EDTA; Cu-EDTA</u>	
Austria	STEL 0.4 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
Australia	N.A.
Finland	TWA: 0.02 mg/m <sup>3</sup>
<u>Sodium molybdate; Na<sub>2</sub>MoO<sub>4</sub></u>	
Austria	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Czech Republic OEL	5 mg/m <sup>3</sup> TWA
Denmark	TWA: 5 mg/m <sup>3</sup>
Finland	TWA: 0.5 mg/m <sup>3</sup>
FR - OEL - 8h VMEs	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
Norway	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Poland	STEL: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Portugal	TWA: 0.5 mg/m <sup>3</sup>
Spain - Valores Limite Ambientales - VLE	TWA: 0.5 mg/m <sup>3</sup>
Switzerland	TWA: 5 mg/m <sup>3</sup>

### Derived No Effect Level (DNEL)

Component	Oral	Dermal	Inhalation
Urea 57-13-6 ( 10 - 25% )		580 mg/kg bw/day	292 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC)

No data available

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Urea 57-13-6 ( 10 - 25% )	0.47 mg/l		0.047 mg/l			

### 8.2. Exposure controls

**Personal protective equipment****Eye/Face Protection**

Wear face-shield and protective suit for abnormal processing problems.

**Hand protection**

Gloves. Nitrile rubber (0.26 mm). Break through time. &gt; 8 h.

**Respiratory Protection**

Not required; except in case of aerosol formation. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

**Skin and body protection:**

Lightweight protective clothing

**Hygiene Measures:**

When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	aqueous solution
<b>Odor:</b>	None
<b>pH:</b>	6.5
<b>Melting Point/Freezing Point:</b>	No data available
<b>Boiling Point/Range:</b>	no data available. .
<b>Flash Point:</b>	no data available. .
<b>Evaporation Rate:</b>	no data available. .
<b>Flammability (solid, gas):</b>	Not flammable
<b>Vapor Pressure:</b>	no data available. .
<b>Vapour density</b>	no data available. .
<b>Relative density</b>	No data available
<b>Water Solubility:</b>	No data available
<b>Solubility(ies)</b>	No data available
<b>Partition Coefficient:</b>	no data available. .
<b>Autoignition Temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Explosive Properties:</b>	Doesn't present explosion hazard.

**9.2. Other information****VOC Content (%):** Solid. Not applicable.**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Not reactive.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**10.4. Conditions to avoid**

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well.

**10.5. Incompatible materials**

Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

**10.6. Hazardous decomposition products**

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Product Information**

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

**Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):**

<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	May cause slight irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	May cause gastrointestinal discomfort if consumed in large amounts.

**Information on Toxicological Effects**

None known

**Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

*ATEmix (oral):* 4,984.00 mg/kg*ATEmix (dermal):* 40,206.00 mg/kg**Unknown Acute Toxicity:** 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Urea	= 8471 mg/kg ( Rat )		
Disodium octaborate tetrahydrate	= 2500 mg/kg ( Rat )		
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub>	= 4233 mg/kg ( Rat )	> 2000 mg/kg (Rat)	> 2080 mg/m <sup>3</sup> ( Rat ) 4 h

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:**

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

<b>Serious eye damage/eye irritation</b>	Classification based on individual ingredients of the mixture.
<b>Respiratory or skin sensitization</b>	Classification based on individual ingredients of the mixture.
<b>Germ Cell Mutagenicity</b>	Classification based on individual ingredients of the mixture.
<b>Carcinogenicity</b>	Classification based on individual ingredients of the mixture.
<b>Reproductive Toxicity</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Single Exposure</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Repeated Exposure</b>	Classification based on individual ingredients of the mixture.
<b>Aspiration Hazard</b>	Classification based on individual ingredients of the mixture.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity****Ecotoxicity**

Should not be released into the environment

**Unknown Aquatic Toxicity**

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Urea	> 10000: 192 h Scenedesmus quadricauda mg/L EC50	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	3910: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna Straus mg/L EC50

**12.2. Persistence and degradability**

**Persistence and Degradability:** No persistent or cumulative effects were observed.

**12.3. Bioaccumulative potential**

**Bioaccumulation:** Does not bioaccumulate.

Chemical Name	LOGPOW
Urea	-1.59

**12.4. Mobility in soil** No data available.

**12.5. PBT and vPvB assessment** No data available.

**12.6. Other adverse effects** No data available.

### Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Disposal of Wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:** Do not reuse container.

**Other Information** Use up product completely. Packaging material is industrial waste.

### Section 14: TRANSPORT INFORMATION

#### IMO / IMDG

**14.1**  
**UN-No:** Not regulated

**14.2**  
**Proper shipping name:** Not regulated

**14.3**  
**Hazard Class:** Not regulated

**14.4**  
**Packing group:** Not regulated

**14.5**  
**Marine Pollutant:** No information available

**14.6**  
**Special Provisions** None

**14.7**  
**Bulk transport according Annex II of MARPOL and IBC Code** No data available

#### ADR/RID

**14.1**  
**UN-No:** Not regulated

**14.2**  
**Proper shipping name:** Not regulated

**14.3**  
**Hazard Class:** Not regulated

**14.4**  
**Packing group:** Not regulated

**14.5**  
**Environmental Hazard** Not regulated

**14.6**  
**Special Provisions** None

#### IATA

**14.1**  
**UN-No:** Not regulated

**14.2**  
**Proper shipping name:** Not regulated

**14.3**

<b>Hazard Class:</b> <u>14.4</u>	Not regulated
<b>Packing group:</b> <u>14.5</u>	Not regulated
<b>Environmental Hazard</b> <u>14.6</u>	Not regulated
<b>Special Provisions</b>	None

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Belgium

#### Denmark

Denmark No data available

#### France

ICPE Not regulated

#### Germany

LGK (Germany) Exempt  
Water Endangering Class (WGK): 1 (Everris classification)  
Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section
Urea 57-13-6 ( 10 - 25% )	1
Manganese-EDTA, Mn-EDTA 15375-84-5 ( < 0.1% )	2
Disodium octaborate tetrahydrate 12280-03-4 ( < 0.1% )	class 3
Copper-EDTA; Cu-EDTA 14025-15-1 ( < 0.1% )	2
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub> 7631-95-0 ( < 0.1% )	1

Component	EU - Explosives Precursors Marketing and Use (98/2013) - Substances Subject to Suspicious Transactions Reporting	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Disodium octaborate tetrahydrate 12280-03-4 ( < 0.1% )		Use restricted. See item 30.

### 15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Dir. 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work

Chemical Name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Disodium octaborate tetrahydrate	Use restricted. See item 30.	

## Section 16: OTHER INFORMATION

### **Full text of H-Statements referred to under sections 2 and 3**

- H360 - May damage fertility or the unborn child
- H302 - Harmful if swallowed

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PNEC: Predicted No Effect Concentration  
DNEL: Derived No-Effect Level  
REACH: Registration, Evaluation, Authorization of Chemicals  
CLP: EU-GHS; Classification, Labelling and Packaging  
OEL: Occupational Exposure Limit  
TWA: Time Weighted Average  
ATE: Acute Toxicity Estimate  
EUH phrase: CLP (EU) specific hazard statement  
LD50: Lethal dose, 50%.  
LC50: Lethal concentration, 50%.  
SVHC: Substance of Very High Concern.

**Classification procedure**

- Calculation method
- Expert judgment and weight of evidence determination

**Key literature references and sources for data**

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830. Regulation (EC) No 1272/2008 (CLP).

**Prepared by**

Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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**Restrictions on use**

Restricted to professional users

**Reason for revision**

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

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