Safety Data Sheet

Issue Date 25-Feb-2015 Revision Date 10-Oct-2019 Version: 8.01

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

1.1. Product identifier

Product Name Greenmaster Liquid High K 3-3-10+TE

Product Code: 31020110DA 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]

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 [CLP1	REACH registration number
Citric acid; C ₆ H ₈ O ₇	201-069-1	77-92-9	10 - 25%	Eye Irrit. 2 (H319)	01-2119457026-42
Urea	200-315-5	57-13-6	5 - 10%	Not classified	01-2119463277-33
Ammonium nitrate; NH ₄ NO ₃	229-347-8	6484-52-2	1 - 5%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
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

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Sodium molybdate: Na ₂ MoO ₄	231-551-7	7631-95-0	< 0.1%	Not classified	01-2119489495-21
1 Coalain molybaato, mazimoo+		1001000	~ 0.170	i tot olacollica	0 1 2 1 10 100 100 2 1

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice: First aid measures should be executed by trained personnel only.

Inhalation If not breathing, give artificial respiration. If symptoms persist, call a physician. If fumes from

reactions are inhaled, move to fresh air immediately.

Skin Contact: If skin irritation persists, call a physician.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists,

consult a specialist.

Ingestion: Call a physician or Poison Control Centre immediately.

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.

Unsuitable Extinguishing Media: 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

Personal Precautions: Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to

safe areas.

For Emergency Responders: 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

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleanup: 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. 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.

Store in original container.

Exempt

Packaging Materials: LGK (Germany)

7.3. Specific end use(s)

Specific use(s) Exposure scenario Fertilizer; www.everris.com; Read and follow label instructions Mixture. Not required.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Citric acid; C ₆ H ₈ O ₇				
greece OEL 15 minute	1			
Urea				
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA			
Latvia - OEL - TWAs	10 mg/m³ TWA			
Ammonium nitrate; NH4NO3				
Australia	N.A.			
Czech Republic OEL	10.0 mg/m³ TWA			
Manganese-EDTA, Mn-EDTA				
Czech Republic OEL	1 mg/m³ TWA			
Ireland	TWA: 0.2 mg/m ³			
	STEL: 0.6 mg/m ³			
Copper-EDTA; Cu-EDTA				
Austria	STEL 0.4 mg/m ³			
	TWA: 0.1 mg/m ³			
Australia	N.A.			
Finland	TWA: 0.02 mg/m ³			
Sodium molybdate; Na ₂ MoO ₄				
Austria	STEL 10 mg/m ³			
	TWA: 5 mg/m ³			
Czech Republic OEL	5 mg/m³ TWA			
Denmark	TWA: 5 mg/m ³			
Finland	TWA: 0.5 mg/m ³			
FR - OEL - 8h VMEs	TWA: 5 mg/m ³			
	STEL: 10 mg/m ³			
Ireland	TWA: 10 mg/m³			
	STEL: 30 mg/m³			
Norway	TWA: 5 mg/m ³			
	STEL: 10 mg/m³			
Poland	STEL: 10 mg/m³			
Dowtonal	TWA: 4 mg/m³			
Portugal	TWA: 0.5 mg/m ³			
Spain - Valores Limite Ambientales - VLE	TWA: 0.5 mg/m ³			
Switzerland	TWA: 5 mg/m ³			

Derived No Effect Level (DNEL)

	Component	Oral	Dermal	Inhalation
	Urea		580 mg/kg bw/day	292 mg/m ³
L	57-13-6 (5 - 10%)			
Γ	Ammonium nitrate; NH4NO3	36 mg/m ³	5.12 mg/kg bw/day	8.9 mg/m ³
	6484-52-2 (1 - 5%)			

Predicted No Effect Concentration (PNEC)

No data available

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Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Urea 57-13-6 (5 - 10%)	0.47 mg/l		0.047 mg/l			
Ammonium nitrate; NH4NO ₃ 6484-52-2 (1 - 5%)						18 mg/l

8.2. Exposure controls

Personal protective equipment

Eye/Face ProtectionNot required Wear face-shield and protective suit for abnormal processing problems.

Hand protection Gloves. Nitrile rubber (0.26 mm). Break through time. > 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

Physical State: Liquid

Appearance: aqueous solution

Odor: None pH: 6.5

Melting Point/Freezing Point: No data available **Boiling Point/Range:** no data available. . Flash Point: no data available. . **Evaporation Rate:** no data available. . Flammability (solid, gas): Not flammable Vapor Pressure: no data available. . Vapour density no data available. . Relative density No data available Water Solubility: No data available Solubility(ies) No data available no data available. . **Partition Coefficient: Autoignition Temperature:** No data available **Decomposition temperature:** No data available

Explosive Properties: 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 derivates 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):

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact May cause slight irritation.

Skin Contact May cause irritation.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects

None known

Acute Toxicity

Aspiration Hazard

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

ATEmix (oral): 1,963.00 mg/kg

ATEmix (dermal): 53,529.00 mg/kg

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citric acid; C ₆ H ₈ O ₇	= 3 g/kg (Rat) = 3000		
	mg/kg (Rat)		
Urea	= 8471 mg/kg (Rat)		
Ammonium nitrate; NH₄NO₃	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat) 4 h
Disodium octaborate tetrahydrate	= 2500 mg/kg (Rat)		
Sodium molybdate; Na₂MoO₄	= 4233 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 2080 mg/m ³ (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

Serious eye damage/eye irritation

Classification based on individual ingredients of the mixture.

Classification based on individual ingredients of the mixture.

Classification based on individual ingredients of the mixture.

Carcinogenicity

Classification based on individual ingredients of the mixture.

12.1. Toxicity

Ecotoxicity Should not be released into the environment

Unknown Aquatic Toxicity 0% of the mixture consists of components(s) of unknown hazards

to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Citric acid; C ₆ H ₈ O ₇	-	1516: 96 h Lepomis macrochirus mg/L LC50 static	-	120: 72 h Daphnia magna mg/L EC50
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
Ammonium nitrate; NH ₄ NO ₃	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-

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
Citric acid; C ₆ H ₈ O ₇	-1.72
Urea	-1.59
Ammonium nitrate; NH ₄ NO ₃	-3.1

12.4. Mobility in soil No data available.

12.5. PBT and vPvB assessment No data available.

12.6. Other adverse effectsNo 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

Hazard Class: Not regulated

<u>14.4</u>

Packing group: Not regulated

14.5

Environmental Hazard Not regulated

14.6

Special Provisions None

Section 15: REGULATORY INFORMATION

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

<u>Belgium</u>

Component	Belgium - Major Accidents - Qualifying Quantities for Safety Reporting	Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium nitrate; NH₄NO₃	2500 tonne (technical grade; (a) this applies	350 tonne
6484-52-2 (1 - 5%)	to Ammonium nitrate in which the Nitrogen	
, ,	content as a result of Ammonium nitrate is (i	
	between 24.5% and 28% by weight and	
	which contain <=0.4% total combustible or	
	(ii) >28% by weight and which contain	
	<=0.2% combustible substances (b) aqueou	s
	Ammonium nitrate solutions in which the	
	concentration of Ammonium nitrate is >80%	
	by weight)	

<u>Denmark</u>

Denmark No data available

<u>France</u>

ICPE Not regulated

Germany

LGK (Germany) Exempt

Water Endangering Class (WGK): 1 (Everris classification)

Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section
Citric acid; C ₆ H ₈ O ₇	class 1

77-92-9 (10 - 25%)	
Urea	1
57-13-6 (5 - 10%)	
Ammonium nitrate; NH ₄ NO ₃	1
6484-52-2 (1 - 5%)	
Manganese-EDTA, Mn-EDTA	2
15375-84-5 (< 0.1%)	
Disodium octaborate tetrahydrate	class 3
12280-03-4 (< 0.1%)	
Copper-EDTA; Cu-EDTA	2
14025-15-1 (< 0.1%)	
Sodium molybdate; Na ₂ MoO ₄	1
7631-95-0 (< 0.1%)	

Component	EU - Explosives Precursors Marketing and	EU - REACH (1907/2006) - Annex XVII -
	Use (98/2013) - Substances Subject to	Restrictions on Certain Dangerous
	Suspicious Transactions Reporting	Substances
Ammonium nitrate; NH ₄ NO ₃	Present (in concentration of 16% by weight of	Use restricted. See item 58. (Conditions of
6484-52-2 (1 - 5%)	Nitrogen in relation to Ammonium nitrate or	restrictions 27 June 2010)
	higher)	·
Disodium octaborate tetrahydrate		Use restricted. See item 30.
12280-03-4 (< 0.1%)		

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
Ammonium nitrate; NH ₄ NO ₃	Use restricted. See item 58.	
Disodium octaborate tetrahydrate	Use restricted. See item 30.	

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
	350	2500
Ammonium nitrate; NH ₄ NO ₃		

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
- H319 Causes serious eye irritation
- H272 May intensify fire; oxidizer

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

Prepared by

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

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

No. 2015/830. Regulation (EC) No 1272/2008 (CLP).

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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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