

Safety Data Sheet

Revision Date 10-Oct-2019

Version: 5

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

1.1. Product identifier

Product Name Greenmaster Liquid Cal-Mag 9-0-0+13CaO+3MgO
Product Code: 31460100DA
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)

Acute toxicity - Oral	Category 4 - (H302)
Eye Irritation	Category 1 - (H318)

2.2. Label elements



Signal Word: Danger

Hazard Statements:

H302 - Harmful if swallowed

H318 - Causes serious eye damage

Contains Nitric acid ammonium calcium salt

Precautionary Statements:

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

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

P310 - Immediately call a POISON CENTER or doctor

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
Nitric acid ammonium calcium salt	239-289-5	15245-12-2	40 - 65%	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	01-2119493947-16
Acetic acid	607-002-00-6	64-19-7	< 0.1%	Skin Corr. 1A (H314) Flam. Liq. 3 (H226)	01-2119475328-30

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:** 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

- Suitable Extinguishing Media:** 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.

Packaging Materials:

Store in original container. Store in a closed container.

7.3. Specific end use(s)

Specific use(s)

Fertilizer; www.everris.com; Read and follow label instructions

Exposure scenario

Mixture. Not required.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<i>Acetic acid</i>	
European Union	TWA 10 ppm deleted with effect from August 21, 2018 TWA 25 mg/m ³ deleted with effect from August 21, 2018
Austria	STEL 20 ppm STEL 50 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³
Australia	10 ppm TWA 25 mg/m ³ TWA
Belgium - 8 Hr TWA	10 ppm TWA 25 mg/m ³ TWA
Bulgaria - OEL- TWAs	25.0 mg/m ³ TWA
Czech Republic OEL	25 mg/m ³ TWA
Denmark	TWA: 10 ppm TWA: 25 mg/m ³
Estonia - OEL - STELs	10 ppm STEL; 25 mg/m ³ STEL
Finland	TWA: 5 ppm TWA: 13 mg/m ³ STEL: 10 ppm STEL: 25 mg/m ³
FR - OEL - 8h VMEs	STEL: 10 ppm STEL: 25 mg/m ³
greece OEL 15 minute	15 ppm STEL 37 mg/m ³ STEL
Hungary - OEL - TWAs	25 mg/m ³ TWA
Iceland - OEL - 8 Hour	10 ppm TWA 25 mg/m ³ TWA
Indonesia - OEL - STELs (PSDs)	15 ppm STEL; 37 mg/m ³ STEL
Ireland	TWA: 10 ppm TWA: 25 mg/m ³ STEL: 20 ppm STEL: 37 mg/m ³
Japan	10 ppm OEL 25 mg/m ³ OEL
Korea - ISHA - OEL - TWAs	10 ppm TWA (Serial No. 501)
Latvia - OEL - TWAs	10 ppm TWA; 25 mg/m ³ TWA
Malaysia	10 ppm TWA; 25 mg/m ³ TWA
NL MAC - TWA:	STEL: 50 mg/m ³ TWA: 25 mg/m ³
Norway	TWA: 10 ppm

	TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37.5 mg/m ³
Poland	STEL: 50 mg/m ³ TWA: 25 mg/m ³
Portugal	STEL: 15 ppm TWA: 10 ppm TWA: 25 mg/m ³
Romania - OEL - TWAs	10 ppm TWA; 25 mg/m ³ TWA
Slovenia - OEL - TWAs	10 ppm TWA; 25 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	STEL: 20 ppm STEL: 50 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³
Singapore - OEL:PELs	10 ppm PEL 25 mg/m ³ PEL
Switzerland	STEL: 20 ppm STEL: 50 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³
United Kingdom - Occupational Exposure	25 mg/m ³ (10ppm) 8hr TWA. 50 mg/m ³ (20ppm) 15 min TWA.

Derived No Effect Level (DNEL)**Predicted No Effect Concentration (PNEC)**

No data available

8.2. Exposure controls**Personal protective equipment****Eye/Face Protection**

Wear eye/face protection

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

Color:

amber.

Odor:

characteristic

pH:

3.75+/-0.25

Density:

1.51+/-0.01 g/ml @ 20 C

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

Partition Coefficient:

no data available.

Autoignition Temperature:

No data available

Decomposition temperature:

No data available

Explosive Properties:

Doesn't present explosion hazard.

9.2. Other information**VOC Content (%):**

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):

Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Causes serious eye damage.
Skin Contact	May cause irritation.
Ingestion	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): 999.00 mg/kg

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid ammonium calcium salt	300 - 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	
Acetic acid	= 2500 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (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.
Respiratory or skin sensitization	Classification based on individual ingredients of the mixture.
Germ Cell Mutagenicity	Classification based on individual ingredients of the mixture.

Carcinogenicity	Classification based on individual ingredients of the mixture.
Reproductive Toxicity	Classification based on individual ingredients of the mixture.
STOT - Single Exposure	Classification based on individual ingredients of the mixture.
STOT - Repeated Exposure	Classification based on individual ingredients of the mixture.
Aspiration Hazard	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 components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Nitric acid ammonium calcium salt	-	447: 48 h Carassius auratus mg/L LC50	-	-
Acetic acid	NE	79: 96 h Pimephales promelas mg/L LC50 static 75: 96 h Lepomis macrochirus mg/L LC50 static	-	65: 48 h Daphnia magna mg/L EC50 Static 47: 24 h Daphnia magna 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
Nitric acid ammonium calcium salt	0
Acetic acid	-0.31

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	
Hazard Class:	Not regulated
14.4	
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****Belgium****Denmark**

Denmark No data available

France

ICPE No data available

Germany

LGK (Germany) No data available

Component	German WGK Section
Nitric acid ammonium calcium salt 15245-12-2 (40 - 65%)	3
Acetic acid 64-19-7 (< 0.1%)	class 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

Nitric acid ammonium calcium salt 15245-12-2 (40 - 65%)	Present	
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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

Section 16: OTHER INFORMATION

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

- H226 - Flammable liquid and vapor
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage

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).

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Reason for revision

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

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