



ORIGINAL

MATERIAL SAFETY DATA SHEET

Date of issue: 12/02/2014	Date of revision: 15/06/2020	Lima MSDS N°14
According to: Regulation (EC) N° 1907/2006 (REACH) Regulation (EC) N° 830/2015 Regulation (EC) N° 1272/2008 (CLP)		UFI Code:

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Trade name:	GROGREEN PRO ALGIN
EINECS name/number:	Mixture – therefore not relevant
IUPAC name:	Mixture – therefore not relevant
Molecular formula:	Mixture – therefore not relevant

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

Relevant identified uses:	Product is used to supply nutrients to the soil or directly to the plant.
Uses advised against:	Not identified.

1.3 Details of the supplier of the safety data sheet:

Produced and distributed by:	Lima Europe NV Doelhaagstraat 77/1 2840 Rumst – Belgium Tel: +32 3 203 55 50 info@lima-europe.com
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1.4 Emergency telephone number:

Lima Europe NV:	+32 3 203 55 50
National Poison Center (BE):	+32 70 245 245

2. Hazards identification

2.1 Classification of the substance or mixture:

Product description:	Mixture
Classification:	<u>Not classified according to EC No. 1272/2008</u>

2.2 Label elements:

Hazard pictogram:	None
Signal word:	None
Hazard statements:	None
General precautions:	Avoid eye contact. If in eyes, rinse immediately with an abundance of water. If irritation persists, contact a doctor/physician.



Additional label elements: Not applicable.

Packaging requirements: Not applicable.

2.3 Other hazards:

Substance complies with criteria
For PBT according to regulation
(EC) nr. 1907/2006, annex XIII: Not applicable.

Substance complies with criteria
For vPvB according to regulation
(EC) nr. 1907/2006, annex XIII: Not applicable.

Other hazards that do not require
classification: In combination with water the product can cause a
slippery surface.

3. Composition/information on ingredients

No hazardous components present in the formulation.

4. First aid measures

4.1 Description of first aid measures:

After skin contact:	Wash hands immediately with an abundance of water and soap. If skin irritation persists, seek medical advice and attention.
After eye contact:	Immediately flush eyes with plenty of water (> 15 min), occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing.
After ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Give lots of water/milk to drink. Seek medical attention if large amounts were ingested.
After inhalation:	Remove to fresh air and keep at rest in a comfortable position. If respiratory problems occur: seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

After skin contact:	Significant effects or critical dangers are unknown.
After inhalation:	Exposure to decomposition products can lead to health problems. After exposure, serious effects can have a delayed occurrence. Treat symptomatically.
After eye contact:	Significant effects or critical dangers are unknown.
After ingestion:	Significant effects or critical dangers are unknown.

4.3 Indication of any immediate medical attention and special treatment needed:

Remarks for physician/doctor:	Treat symptomatically. Immediately contact a specialist for treatment of poisoning where large amounts were ingested or inhaled. After inhalation of decomposition products produced by a fire, delayed symptoms can occur. Medical surveillance of 48 hours is recommended.
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5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Extinguish with an abundance of water.

Unsuitable extinguishing media: Do not use extinguishers based on chemicals or foam. Do not put out the fire using steam or sand.

5.2 Special hazards arising from the substance or mixture:

Risks of the substance or mixture: Mixture is not flammable but can maintain combustion, even in the absence of oxygen. When heated, the mixture melts and continuous heating can cause decomposition which releases toxic fumes.

Hazardous decomposition products: Not specified.

5.3 Advice for firefighters:

Protection during firefighting: Firefighters should wear appropriate protective equipment and a self-contained breathing apparatus with a full face-piece operated in positive pressure mode. Protective clothing contains: appropriate protective gloves, safety mask, goggles and clothing that provides adequate protection for chemical incidents.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

For others than emergency staff: Do not attempt to take action when there is a serious personal hazard or in case of insufficient training. Evacuate the building and surrounding areas. Do not touch spilled material. Wear suitable protection.

For emergency responders: Wear protective gloves, clothing and eye protection. Identify the contaminated area and keep all unprotected persons out.

6.2 Environmental precautions:

Prevent soil and water pollution. Prevent spreading in sewers. Stop leaks if possible. If product enters drains/sewers or the environment (soil, streams, rivers, air), inform the associated authorities.

6.3 Methods and materials for containment and cleanup:

Remove packaging from the contaminated area. Any spillage should be cleaned up immediately. Avoid contamination of sewers, streams, soil and contained spaces. Collect as much as possible in a suitable clean container. Removal of collected spills must be done by a competent authority.

6.4 Reference to other sections:

See **section 1** for emergency contact information.
See **section 8** for information on appropriate personal protective equipment.
See **section 13** for additional waste treatment.



7. Handling and storage

7.1 Precautions for safe handling:

Protective precautions:

Avoid contact with eyes, skin and clothing.
Do not inhale/ingest.
Store in original packaging or in an approved alternative of compatible material.
Keep product contained when not in use.
Keep away from heat or source of fire.
Emptied packaging can retain some product and can be hazardous.

Hygiene measures:

Do not eat, drink or smoke during use.
Wash hands after handling and using the product.
Remove contaminated clothing before entering an area designated for eating.

7.2 Conditions for safe storage, including any incompatibilities:

Store in original packaging, protected from direct sunlight. Keep in a dry, cool and well-ventilated area.
Keep away from heat sources and open flames.
Keep away from organic materials, oil and grease.
Keep away from combustible materials and materials mentioned in section 10.5.
Store in accordance with regional and national regulations.
Do not eat, drink or smoke in the area where the material is used, stored or processed.
Product remains stable for 5 years if stored according to all provisions.

7.3 Specific end use(s):

No additional information available.

8. Exposure controls/personal protection

8.1 Control parameters:

Not applicable.

8.2 Exposure controls:

Appropriate engineering controls:

If user operations generate dust, use process enclosures, local exhaust ventilation or other controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective controls:

If risk assessment concluded the need of protection, use appropriate approved protective equipment:
safety glasses, face shield,
resistant gloves,
protective clothing and impervious footwear,
respiratory equipment/gas mask.

Hygiene precautions:

Security shower or eyewash stations must be provided at the workplace.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the legislation.



9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	High density suspension
Odor:	Odorless
pH solution:	8.8 (1% solution)
Melting point:	No data available
Boiling point:	> 210 °C (decomposes)
Flash point:	No data available
Evaporation point:	No data available
Flammability:	Not flammable
Explosive limits:	No data available
Vapor pressure:	No data available
Relative vapor density:	Not data available
Relative density:	1,2 kg/liter
Solubility:	100% soluble in water
n-octanol/water partition coefficient:	No data available
Self-ignition temperature:	No data available
Decomposition temperature:	> 210 °C
Viscosity:	> 3.000 cps
Explosive properties:	None
Oxidizing properties:	Non oxidizing

9.2 Other information:

No additional information present.

10. Stability and reactivity

10.1 Reactivity:

Product is stable under normal conditions of handling and storage.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Product can react heavily with acid substances (pH<7) where temperature increases can occur.

10.4 Conditions to avoid:

Avoid contamination with alkaline substances, combustible materials and reducing agents.

10.5 Incompatible materials:

Substance reacts/is incompatible with:	Alkaline substances Combustible materials Reducing agents
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10.6 Hazardous decomposition products:

Under normal conditions of handling and storage, no hazardous components are produced.
With heating or burning: release of toxic and corrosive gases/.

**11. Toxicological information****11.1 Information of toxicological effects:**

Not applicable.

12. Ecological information**12.1 Toxicity:**

Significant effects or critical values are unknown.

12.2 Persistence and degradability:

Product is biologically degradable in plants and soil.

12.3 Bio accumulative potential:

Significant effects or critical values are unknown.

12.4 Mobility in soil:

Nitrate ions are mobile and ammonium ions are absorbed by soil particles. Phosphate is merely transported over short distances in the soil and is afterwards immobilized. The mobility of potassium ions is low due to absorption by soil particles. Dissolved magnesium ions are absorbed by clay particles in the soil. Leaching of nutrients into the soil occurs in the absence of clay particles.

12.5 Results of PBT and vPvB assessment:

Not applicable.

12.6 other adverse effects:

Significant effects or critical values are unknown.

13. Disposal considerations

Waste production should be avoided and minimized as much as possible.
Big quantities of restproducts can not be disposed through the sewers and need to be processed by an appropriate authority. Remove waste in accordance with local and/or national regulations.

14. Transport information**14.1 UN-number:**

Non-dangerous goods according to 'United Nations Recommendations on the Transportation of Dangerous Goods' (UN Orange Book) and according to international transport codes RID (railroad), ADR (road) and IMDG (sea).

14.2 UN proper shipping name:

Not applicable.



14.3 Transport hazard class(es):

Not applicable.

14.4 Packing group:

Not applicable.

14.5 Environmental hazards:

See section 12.

14.6 Special precautions for user:

Necessary caution needs to be taken into account when transporting non-hazardous chemicals.

14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC Code:

Not applicable.

15. Regulatory information

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

15.1.1 EU regulations:

Regulation (EC) Nr. 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilizers.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

15.1.2 National regulations:

Royal Decree of 28/01/2013 regarding the introduction into the market and the use of fertilizers, soil-improving agents and substrates.

15.2 Chemical safety assessment:

No chemical safety assessment has been executed.



16. Other information

16.1 Cause of revision:

Compliance to regulation (EC) N° 830/2015.

16.2 Full list of abbreviations and acronyms:

BW	Body Weight
CLP	Regulation on classification, labeling and packaging (CLP) of substances and mixtures (Regulation (EC) N° 1272/2008)
GHS	Global regulation for classification and labeling of chemical substances
DNEL	Derived No-Effect Level
DMEL	Derived Minimal Effect Level
EC50	Concentration which induces a response halfway between the baseline and maximum after a specified exposure time
Ox. Sol.3	Oxidizing solid category 3
H272	May intensify fire; oxidizer
LC50	Lethal concentration where 50% of the sample population is killed after a single exposure
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very persistent and very bioaccumulative
PNEC	Predicted No-Effect Concentration

16.3 Important references and data:

Information from suppliers (MSDS and technical data sheets of raw materials).

16.4 Procedure used to derive the classification according to Regulation (EC) nr. 1272/2008 CLP/GHS.

Classification: None.

Justification: assessment by expert.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication and revision. The information given is designed only as guidance for safe handling, use, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information should be used in accordance with the technical information. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information does not redeem the user of the obligation to ensure handling according to all relevant regulations.

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