Safety Data Sheet

Issue Date 30-Jan-2014 **Revision Date** 10-Oct-2019 **Version:** 6.02

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

1.1. Product identifier

Product Name	**Greenmaster Pro-Lite Invigorator; 4-0-8+3.3MgO+4Fe+Seaweed**
Product Code:	**52100125DA**
Synonyms:	**Greenmaster 4-0-6.6+2Mg+4Fe+Seaweed**
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)

Skin Corrosion or Irritation	Category 2 - (H315)
Eye Irritation	Category 1 - (H318)

2.2. Label elements

Signal Word: Danger

Hazard Statements:

H315 - Causes skin irritation
H318 - Causes serious eye damage

Contains Iron sulphate; $FeSO_4+1H_2O$, Single super phosphate; SSP

Precautionary Statements:

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

Other hazards (UN-GHS)

MAY BE HARMFUL IF SWALLOWED
Harmful to aquatic life

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
Sand	238-878-4	14808-60-7	10 - 25%	Not classified	Exempt
Iron sulphate; $FeSO_4+1H_2O$	231-753-5	7720-78-7	10 - 25%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57
Single super phosphate; SSP	232-379-5	8011-76-5	10 - 25%	Eye Dam. 1 (H318)	01-2119488967-11
Magnesium carbonate; $MgCO_3$	208-915-9	546-93-0	1 - 5%	Not classified	01-2119523999-20

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 Move person to fresh air. If symptoms persist, call a physician.

Skin Contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. If symptoms persist, call a physician.

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. Use dry chemical, CO2, water spray or "alcohol" foam.

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: Use personal protective equipment.
For Emergency Responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

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: Avoid dust formation. Sweep up and shovel into suitable containers 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: Store in original container. Keep tightly closed in a dry and cool place. Keep away from food, drink and animal feeding stuffs. Protect from extreme temperatures.

Packaging Materials: Store in original container. Store in a closed container.

LGK (Germany) 13

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

Sand	
European Union	TWA 0.1 mg/m³ respirable fraction
Austria	TWA: 0.15 mg/m³
Australia	0.1 mg/m³ TWA respirable dust
Belgium - 8 Hr TWA	0.1 mg/m³ TWA
Bulgaria - OEL- TWAs	0.07 mg/m³ TWA (respirable fraction, listed under free Crystalline silicon dioxide)
Czech Republic OEL	0.1 mg/m³ TWA (dust)
Denmark	TWA: 0.3 mg/m³ TWA: 0.1 mg/m³
Finland	TWA: 0.05 mg/m³
FR - OEL - 8h VMEs	TWA: 0.1 mg/m³
Hungary - OEL - TWAs	0.15 mg/m³ TWA
Iceland - OEL - 8 Hour	0.1 mg/m³ TWA
Ireland	TWA: 0.1 mg/m³
Japan	0.03 mg/m³ OEL
Korea - ISHA - OEL - TWAs	0.05 mg/m³ TWA (respirable fraction, Serial No. 269)
Malaysia	0.1 mg/m³ TWA (respirable fraction)
NL MAC - TWA:	TWA: 0.075 mg/m³
Norway	TWA: 0.1 mg/m³ STEL: 0.1 mg/m³
Poland	TWA: 0.3 mg/m³
Portugal	TWA: 0.025 mg/m³
Romania - OEL - TWAs	0.1 mg/m³ TWA (dust, respirable fraction)
Russia TWA	1 mg/m³ TWA 1177 1 mg/m³ TWA 1178
Slovak Republic - TLV - TWAs	0.1 mg/m³ TWA
Slovenia - OEL - TWAs	0.15 mg/m³ TWA (respirable fraction)
Spain - Valores Limite Ambientales - VLE	TWA: 0.05 mg/m³
Singapore - OEL:PELs	0.1 mg/m³ PEL

Switzerland	TWA: 0.15 mg/m³
UK EH40 WEL (8h)	LTEL (8 Hr) 6 mg/m³ (total inhalable dust) STEL (15 min) 2.4 mg/m³ (total respirable dust)
Iron sulphate; $FeSO_4+1H_2O$	
Belgium - 8 Hr TWA	1 mg/m³
Denmark	TWA: 1 mg/m³
Finland	TWA: 1 mg/m³
Ireland	TWA: 1 mg/m³ STEL: 2 mg/m³
Norway	TWA: 1 mg/m³ STEL: 2 mg/m³
Portugal	TWA: 1 mg/m³
Spain - Valores Limite Ambientales - VLE	TWA: 1 mg/m³
Switzerland	TWA: 1 mg/m³
UK EH40 WEL (8h)	LTEL (8 hr TWA) 1 mg/m³ STEL (15 min) 2mg/m³
Single super phosphate; SSP	
Bulgaria - OEL- TWAs	5.0 mg/m³ TWA (listed under Double superphosphate)
Magnesium carbonate; $MgCO_3$	
Australia	10 mg/m³ TWA inhalable dust
FR - OEL - 8h VMEs	TWA: 10 mg/m³
Korea - ISHA - OEL - TWAs	10 mg/m³ TWA (Serial No. 493)
Malaysia	10 mg/m³ TWA (particulate matter containing no Asbestos and <1% crystalline Silica)
Switzerland	TWA: 3 mg/m³
UK EH40 WEL (8h)	LTEL (8hr TWA) 10mg/m³

Derived No Effect Level (DNEL)

Predicted No Effect Concentration (PNEC)
No data available

8.2. Exposure controls

Personal protective equipment

Eye/Face Protection Tightly fitting safety goggles
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 Rubber or plastic boots
Hygiene Measures: When using, do not eat, drink or smoke. Wash hands before stopping and immediately after handling. Remove and wash contaminated clothing before re-use.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State: Solid
Color: grey.
Odor: None
Bulk density: 800 - 1000 kg/m³
Melting Point/Freezing Point: No data available
Boiling Point/Range: Solid. Not applicable.
Flash Point: Solid. Not applicable.
Evaporation Rate: Solid. Not applicable.
Flammability (solid, gas): Not flammable
Vapor Pressure: Solid. Not applicable.
Vapour density Solid. Not applicable.
Relative density No data available
Water Solubility: No data available
Solubility(ies) No data available
Partition Coefficient: Solid. Not applicable.

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
Nitrogen oxides (NOx).

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
The following values are calculated based on chapter 3.1 of the GHS document:
ATEmix (oral): *2,451.00 mg/kg*

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron sulphate; $FeSO_4+1H_2O$	= 500 mg/kg (Rat)	= 155 mg/kg (Rat)	

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
Iron sulphate; $FeSO_4+1H_2O$	-	925: 96 h Poecilia reticulata mg/L LC50 static 0.56: 96 h Cyprinus carpio mg/L LC50 semi-static	-	152: 48 h Daphnia magna mg/L EC50 6.15 - 9.26: 48 h Daphnia magna mg/L EC50 Static

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate.

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:	Not regulated
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	Not regulated

Germany

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

Component	German WGK Section
Sand 14808-60-7 (10 - 25%)	NWG

Iron sulphate; $FeSO_4+1H_2O$ 7720-78-7 (10 - 25%)	1
Single super phosphate; SSP 8011-76-5 (10 - 25%)	NWG

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

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H302 - Harmful if swallowed
- 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).

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