Safety Data Sheet

Issue Date 19-Dec-2013 **Revision Date** 10-Oct-2019 **Version:** 6

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

1.1. Product identifier

Product Name	**Greenmaster Pro-Lite Cold Start 11-5-5+8Fe**
Product Code:	**52240125DA**
Synonyms:	**Greenmaster Pro-Lite 11-2.2-4.1+8Fe**
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; $FeSO_4+1H_2O$, Potassium sulphate; K_2SO_4, 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
P310 - Immediately call a POISON CENTER or doctor/physician

Other hazards (UN-GHS)
MAY BE HARMFUL IF SWALLOWED
Toxic 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
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
Urea	200-315-5	57-13-6	10 - 25%	Not classified	01-2119463277-33
Single super phosphate; SSP	232-379-5	8011-76-5	5 - 10%	Eye Dam. 1 (H318)	01-2119488967-11
Potassium sulphate; K_2SO_4	231-915-5	7778-80-5	5 - 10%	Eye Dam. 1 (H318)	01-2119489441-34
Calcium sulphate dihydrate; $CaSO_4+2H_2O$	231-900-3	10101-41-4	5 - 10%	Not classified	01-2119444918-26

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 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: If swallowed, seek medical advice immediately and show this container or label.

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. 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

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
Urea	
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA
Latvia - OEL - TWAs	10 mg/m³ TWA
Single super phosphate; SSP	
Bulgaria - OEL- TWAs	5.0 mg/m³ TWA (listed under Double superphosphate)
Potassium sulphate; K_2SO_4	
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA
Latvia - OEL - TWAs	10 mg/m³ TWA
Calcium sulphate dihydrate; $CaSO_4+2H_2O$	
Belgium - 8 Hr TWA	10 mg/m³ TWA
Portugal	TWA: 10 mg/m³
Spain - Valores Limite Ambientales - VLE	TWA: 10 mg/m³
Switzerland	TWA: 3 mg/m³
UK EH40 WEL (8h)	10 mg/m³ TWA (Inhalable) 4 mg/m³ TWA (Respirable)

Derived No Effect Level (DNEL)

Component	Oral	Dermal	Inhalation
Urea 57-13-6 (10 - 25%)		580 mg/kg bw/day	292 mg/m³
Potassium sulphate; K_2SO_4 7778-80-5 (5 - 10%)		21.3 mg/kg bw/day	37.6 mg/m³

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			
Potassium sulphate; K_2SO_4 7778-80-5 (5 - 10%)	0.68 mg/l		0.068 mg/l			10 mg/l

8.2. Exposure controls

Personal protective equipment

Eye/Face Protection Tightly fitting safety goggles
Hand protection Nitrile rubber (0.26 mm). Break through time. > 8 h.
Respiratory Protection Effective dust mask
Skin and body protection: Lightweight protective clothing
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
Appearance: Granules
Color: grey, brown.
Odor: None
Bulk density: 800 kg/m³ - 1000 kg/m³
pH: 2.9 (@ 200 g/l)
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): *2,230.00 mg/kg*

Unknown Acute Toxicity: 13% of the mixture consists of ingredient(s) of unknown toxicity.

Potassium sulphate; K_2SO_4 (7778-80-5)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron sulphate; $FeSO_4+1H_2O$	= 500 mg/kg (Rat)	= 155 mg/kg (Rat)	
Urea	= 8471 mg/kg (Rat)		
Potassium sulphate; K_2SO_4	= 6600 mg/kg (Rat)	> 2000 mg/kg (Rat)	N.E.

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 13% 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
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
Potassium sulphate; K_2SO_4	2900: 72 h Desmodesmus subspicatus mg/L EC50	653: 96 h Lepomis macrochirus mg/L LC50 3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static	-	890: 48 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
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: 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
LGK (Germany) 13
Water Endangering Class (WGK): 1 (Everris classification)
Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section

Iron sulphate; $FeSO_4+1H_2O$ 7720-78-7 (10 - 25%)	1
Urea 57-13-6 (10 - 25%)	1
Single super phosphate; SSP 8011-76-5 (5 - 10%)	NWG
Potassium sulphate; K_2SO_4 7778-80-5 (5 - 10%)	1
Calcium sulphate dihydrate; $CaSO_4+2H_2O$ 10101-41-4 (5 - 10%)	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

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
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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

abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.