Safety Data Sheet

Issue Date 18-Feb-2019 **Revision Date** 18-Feb-2019 **Version:** 1

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

1.1. Product identifier

Product Name:	**Sierrablen Plus Renovator 11-11-5+8MgO; 2-3M**
Product Code:	**40600125DA**
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

Manufacturer

Everris International BVNijverheidsweg 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 2 - (H319)
Specific Target Organ Toxicity (Single Exposure)	Category 3 - (H335)

2.2. Label elements

Signal Word:

Warning

Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
Contains Struvite

Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves and eye/face protection
P312 - Call a POISON CENTER or doctor if you feel unwell
P337 + P313 - If eye irritation persists: Get medical advice/attention
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No.	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Struvite	-	NO CAS NR.	40 - 65%	Skin irrit. 2; (H335) Eye Irrit. 2 (H319) STOT SE 3 (H335)	Exempt
Urea	200-315-5	57-13-6	10 - 25%	Not classified	01-2119463277-33
Calcium sulfate anh; CaSO4	231-900-3	7778-18-9	10 - 25%	Not classified	01-2119444918-26
Sulphur; S	231-722-6	7704-34-9	1 - 5%	Skin Irrit. 2 (H315)	01-2119487295-27
Wax	601-216-3	112945-52-5	0.1 - 1%	Not classified	01-2119488076-30

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. 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: 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 product to enter the environment uncontrolled.

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 bags should be closed well.

Packaging Materials: Keep in original container, tightly closed in a safe place.

7.3. Specific end use(s)

Specific use(s) Fertilizer; www.everris.com; Read and follow label instructions

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Urea	
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA
Latvia - Occupational Exposure Limits - TWAs	10 mg/m³ TWA
Norway	TWA: 30 µg Hg/g Creatinine STEL: 30 µg Hg/g Creatinine
Calcium sulfate anh; CaSO4	
Austria	STEL 10 mg/m³ TWA: 5 mg/m³
Australia	10 mg/m³ TWA inhalable dust
Belgium - 8 Hr TWA	10 mg/m³ TWA
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 10 mg/m³
Hungary - Occupational Exposure Limits - TWAs	6 mg/m³ TWA
Ireland	TWA: 10 mg/m³ STEL: 30 mg/m³
Latvia - Occupational Exposure Limits - TWAs	4 mg/m³ TWA (hydrogenated)
Malaysia - Occupational Exposure Limits - TWAs	10 mg/m³ TWA (particulate matter containing no Asbestos and <1% crystalline Silica)
Portugal	TWA: 10 mg/m³
Slovenia - Occupational Exposure Limits - TWAs	6 mg/m³ TWA (respirable fraction)
Spain OEL - Time Weighted Average (TWA):	TWA: 10 mg/m³
Singapore - OEL:PELs	10 mg/m³ PEL
Switzerland	TWA: 3 mg/m³
Sulphur; S	
Latvia - Occupational Exposure Limits - TWAs	6 mg/m³ TWA
Russia TWA	6 mg/m³ TWA 1790
Wax	
Austria	TWA: 4 mg/m³

Switzerland	TWA: 4 mg/m³

Component	Oral	Dermal	Inhalation:
Urea 57-13-6 (10 - 25%)		580 mg/kg bw/day	292 mg/m³

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			

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: Solid
Appearance: Granules
Color: white, grey, orange.
Odor: None
Bulk density: 1006 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. Based on data of ingredients.

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 bags 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

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Product Information

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

Eye contact May cause slight irritation.

Skin Contact Causes skin irritation.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects:

Symptoms: No information available

Acute Toxicity

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Urea	= 8471 mg/kg (Rat)		
Calcium sulfate anh; CaSO4	> 3000 mg/kg (Rat)		
Sulphur; S	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat) 4 h
Wax	= 3160 mg/kg (Rat)		

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:
None known

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 Do not allow product to enter the environment uncontrolled.

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
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
Calcium sulfate anh; CaSO4	-	2980: 96 h Lepomis macrochirus mg/L LC50 static 1970: 96 h Pimephales promelas mg/L LC50 static	-	3200: 120 h Nitscheria linearis mg/L EC50
Sulphur; S	-	866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-

12.2. Persistence and degradability
Persistence and Degradability: Non-persistent.

12.3. Bioaccumulative potential
Bioaccumulation: Does not bioaccumulate.

Chemical Name	LOGPOW
Urea	-1.59

12.4. Mobility in soil
Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment
PBT and vPvB assessment No data available.

12.6. Other adverse effects
Mobility: 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

Transport in bulk according to Annex II of MARPOL 73/78 and the 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

Danish Sikkerhedsgruppe No data available

France

ICPE No data available

Germany

LGK (Germany) No data available

Component	German WGK Section
Urea 57-13-6 (10 - 25%)	class 1
Calcium sulfate anh; CaSO4 7778-18-9 (10 - 25%)	class 1
Sulphur; S 7704-34-9 (1 - 5%)	class 1
Wax 112945-52-5 (0.1 - 1%)	class 3

15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the 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
- H335 - May cause respiratory irritation

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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