# **Safety Data Sheet**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Last Revision Date 19-Jan-2022 Version: 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name
Product Code
Unique Formula Identifier (UFI)

Unique Formula Identifier (UFI)
Pure substance/mixture

Greenmaster NK 12-0-12+2CaO+3MgO+2Fe 5245-125HA 7AHF-80N5-500D-621C

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 (SU21)

Reason why uses advised against Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3

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

Non-Emergency Telephone Number +31 (0) 418655700

1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24/7)

Europe	112	
Austria	+43 1 406 43 43	
Belgium	070 245 245	
Denmark	+45 8212 1212	
Finland	0800 147 111	
France	+ 33 (0)1 45 42 59	
Ireland	01 809 2566	
Netherlands	+31 88 75 585 61	
Norway	+45 735 80500	
Poland	+48 42 2538 400	
Portugal	+351 800 250 250	
Spain	+34 91 562 04 20	
Sweden	112	
Switzerland	Tox Info Switzerland 145 (24h)	
United Kingdom	111	

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

regulation (20) No 1272/2000			
Skin corrosion/irritation	Category 2 - (H315)		
Serious eye damage/eye irritation	Category 2 - (H319)		

### 2.2. Label elements



#### Signal word

Warning

#### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

#### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves and eye/face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	EC No	Weight-%		Specific	REACH	M-Factor	M-Factor
			according to Regulation (EC)	concentration limit (SCL)	registration number		(long-term
			No. 1272/2008	IIIIII (SCL)	riumbei		,
			[CLP]				
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> (7778-80-5)	231-915-5	10 - 25%	Eye Irrit. 2 (H319)	-	01-2119489441-34	-	-
Iron sulphate; FeSO₄+1H₂O (7720-78-7)	231-753-5	10 - 25%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	-	01-2119513203-57	-	-

## Full text of H- and EUH-phrases: see section 16

#### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	6600	No data available	No data available
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	319	No data available	No data available

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice Show

Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

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

**Note to physicians**Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Hazardous Combustion Products** Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

For emergency responders

Use personal protection recommended in Section 8. Prevent entry into waterways, sewers,

basements or confined areas.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

## 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 cleaning up Take up mechanically, placing in appropriate containers for disposal. Use up product

completely. Packaging material is industrial waste.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

**Packaging materials** Keep in original container, tightly closed in a safe place.

7.3. Specific end use(s)

Specific use(s) Fertilizer.

**Exposure scenario** Mixture. Not required.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

Other Information

LGK (Germany) TRGS 510 13(S)

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	-	-	-	TWA: 10.0 mg/m <sup>3</sup>	-
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	-	-	TWA: 1 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	-	-	TWA: 1 mg/m <sup>3</sup>	-	TWA: 1 mg/m <sup>3</sup>
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	-	-	-	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	-
Chemical name	Italy	Latvia	Lithuania	Luxembourg	Netherlands

Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-
Chemical name	Norway	Poland	Portugal	Romania	Slovakia
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	-	TWA: 1 mg/m <sup>3</sup>	•	•
Chemical name	Slovenia	Spain	Sweden	Switzerland	United Kingdom
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	-	TWA: 1 mg/m <sup>3</sup>	-	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

#### **Biological occupational exposure limits**

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

No information available. No information available.

#### 8.2. Exposure controls

Personal protective equipment Wear normal, light working clothing

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection**No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Prevent

product from entering drains.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical stateSolidAppearance:GranulesColor:light brownOdor:Fertilizer.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting Point/Freezing Point:No data availableNone knownBoiling Point/Range:No data availableNone knownFlammability (solid, gas):No data availableNone knownFlammability Limits in Air:None known

Upper Flammability Limit:No data availableLower Flammability Limit:No data available

Flash Point:No data availableNone knownAutoignition Temperature:No data availableNone known

Decomposition Temperature:No data availableNone knownpHNo data availableNone known

pH (as aqueous solution)

No data available

None known

Water solubilityNo data availableNone knownSolubility(ies)No data availableNone knownPartition Coefficient:No data availableNone knownVapor Pressure:No data availableNone knownRelative densityNo data availableNone known

Bulk density No data available Density: No data available

Vapour density No data available None known

Particle characteristics

Particle Size No data available Particle Size Distribution No data available

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

# SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Not reactive.

10.2. Chemical stability

**Stability** Stable under normal conditions.

Specific methods:

Sensitivity to mechanical impact
Sensitivity to static discharge

Not sensitive.
Not sensitive.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

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 hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact

\_\_\_\_\_

Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

**Acute toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 4,068.30 mg/kg

0 % of the mixture consists of ingredient(s) of unknown toxicity

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	= 6600 mg/kg (Rat)	-	-
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	= 500 mg/kg (Rat)	-	-

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

**Skin corrosion/irritation**Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.STOT - single exposureBased on available data, the classification criteria are not met.STOT - repeated exposureBased on available data, the classification criteria are not met.Aspiration hazardBased on available data, the classification criteria are not met.

**Endocrine disrupting properties** 

# SECTION 12: Ecological information

#### 12.1. Toxicity

## **Ecotoxicity**

#### Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	EC50: =2900mg/L (72h,	LC50: 510 - 880mg/L	-	EC50: =890mg/L (48h,

	Desmodesmus subspicatus)	(96h, Pimephales promelas) LC50: =3550mg/L (96h, Lepomis macrochirus) LC50: =653mg/L (96h, Lepomis macrochirus)		Daphnia magna)
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	-	LC50: =0.56mg/L (96h, Cyprinus carpio) LC50: =925mg/L (96h, Poecilia reticulata)	-	EC50: 6.15 - 9.26mg/L (48h, Daphnia magna) EC50: =152mg/L (48h, Daphnia magna)

#### 12.2. Persistence and degradability

Persistence and Degradability: No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

12.4. Mobility in soil

**Mobility in soil** no data available.

**Mobility** no data available.

#### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	The substance is not PBT / vPvB PBT assessment does not apply
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	The substance is not PBT / vPvB PBT assessment does not apply

### 12.6. Endocrine disrupting properties

#### 12.7. Other adverse effects

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

uncontaminated, collect and reuse as recommended for product.

# **SECTION 14: Transport information**

IMDG

14.1 UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Transport hazard class(es)

Not regulated

14.4

Packing group: Not regulated

<u>14.5</u>

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 14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

<u>14.3</u>

Transport hazard class(es)

Not regulated

14.4

Packing group: Not regulated

<u>14.5</u>

Environmental hazards Not regulated

14.6

Special Provisions None

IATA

14.1 UN number or ID number

Not regulated

14.2

Proper shipping name:

Not regulated

14.3

Transport hazard class(es)

Not regulated

<u>14.4</u>

Packing group

Not regulated

14.5 Enviro

**Environmental hazards** 

Not regulated

<u>14.6</u>

Special Provisions None

# **SECTION 15: Regulatory information**

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

#### National regulations

Denmark France

ICPE Not regulated

Germany

LGK (Germany) TRGS 510 13(S)
Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Chemical name	German WGK Section
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	Reg. no. 255, hazard class 1 - slightly hazardous to water
Iron sulphate: FeSO <sub>4+1H2</sub> O	1

#### **Netherlands**

#### **European Union**

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

#### Take note of Directive 94/33/EC on the protection of young people at work

Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors

Not regulated

**Persistent Organic Pollutants** 

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Plant Protection Products (1107/2009/EC)

20 1 14111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Chemical name	EU - Plant Protection Products (1107/2009/EC)		
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	Plant protection agent		
Thom sulphate, Fe3O 4+1112O			

## Biocidal Products Regulation (EU) No 528/2012 (BPR)

#### International Inventories:

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

**Chemical Safety Report** 

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

## **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

## Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### Classification procedure

· Calculation method

• Expert judgment and weight of evidence determination

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

# Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared by Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

Last Revision Date 19-Jan-2022

Restrictions on use

Restricted to professional users

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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**End of Safety Data Sheet**