

MATERIAL SAFETY DATA SHEET

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 453/2010

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1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the substance or preparation

MSDS Ref. No.: 5213.01.25
Product Name: Greenmaster Double K

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

Recommended Use

Fertilizer. Restricted to professional users.

Uses advised against

Consumer use.

Company/undertaking identification

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2. Hazards Identification

Classification

Indication of danger:

The product is classified and labelled in accordance with Directive 1999/45/EC.

Xi



R-phrases

R41 - Risk of serious damage to eyes

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S39 - Wear eye/face protection

3. Composition/information on Ingredients

Chemical nature of the preparation

Ingredients	CAS-No	Weight %	EC-No.	Classification	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Sand	14808-60-7	10 - 25%	238-878-4	NE	no data available	Exempt
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	10 - 25%	231-753-5	Xn; R22 Xi; R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57
Single Super Phosphate; SSP	8011-76-5	10 - 25%	232-379-5	Xi;R41	Eye Dam. 1 (H318)	01-2119488967-11-000 3
Talc	14807-96-6	1 - 5%	NE	NE	no data available	Exempt

NE = Non-Established.

For the full text of the R phrases mentioned in this Section, see Section 16

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

4. First aid measures

4.1. Description of first aid measures

- General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Ingestion:** Rinse mouth. Do NOT induce vomiting. If symptoms persist, call a physician.
- 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.
- Protection of first-aiders:** Low hazard for usual industrial or commercial handling.
- Notes to physician:** Artificial respiration and/or oxygen may be necessary.

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

5. Fire-fighting measures

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area.

Unsuitable extinguishing media:

High volume water jet.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Thermal decomposition can lead to release of irritating gases and vapours. Danger of toxic gases in smoke in case of fire.***

Special protective equipment for firefighters:

Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

Specific methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

Personal Precautions:

Use personal protective equipment.

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.

Methods for cleaning up:

Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Handling:

Technical measures/precautions:

Ensure adequate ventilation.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Do not smoke. Wash hands and exposed skin after use / handling.

Storage:

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.

Incompatible products:

No information available

Specific use(s):

Fertilizer.

8. Exposure Controls/Personal Protection

Engineering measures to reduce exposure:

Personal protective equipment is not normally required - gloves can be worn for personal hygiene. In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below).

Occupational exposure controls

Personal Protective Equipment

Respiratory Protection:

Effective dust mask.

Hand protection:

Protective gloves. Nitrile rubber.

Eye/face Protection

Tightly fitting safety goggles.

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.

Exposure Limit ValuesSand

ACGIH:	0.025 mg/m ³ TWA
Australia TWA	0.1 mg/m ³ TWA respirable dust
Austria - MAKs	0.15 mg/m ³ TWA yearly average, valid till 12/31/2013
Belgium - 8 Hr TWA	0.1 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	0.05 mg/m ³ TWA
France INRS (VME)	0.1 mg/m ³ TWA restrictive limit
Netherlands - OEL - MACs:	0.075 mg/m ³ TWA
Norway - 8 h:	0.1 mg/m ³ TWA
Portugal - TWAs	0.025 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	0.1 mg/m ³ TWA reclassified IARC group 2A to group 1
Sweden - OEL - 8 Hour	0.1 mg/m ³ LLV
UK EH40 WEL:	LTEL (8 Hr) 6 mg/m ³ (total inhalable dust) STEL (15 min) 2.4 mg/m ³ (total respirable dust)

Iron sulphate, FeSO4·1H2O

Belgium - 8 Hr TWA	1 mg/m ³
Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 h:	0.01 mg/m ³
UK EH40 WEL:	LTEL (8 hr TWA) 1 mg/m ³ STEL (15 min) 2mg/m ³

Talc

ACGIH:	2 mg/m ³ TWA
Australia TWA	2.5 mg/m ³ TWA
Austria - MAKs	2 mg/m ³ TWA Asbestos-free fibers
Belgium - 8 Hr TWA	2 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	0.5 fiber/cm ³ TWA
Germany TRGS900:	2 A mg/m ³
Netherlands - OEL - MACs:	0.25 mg/m ³ TWA
Norway - 8 h:	6 mg/m ³ TWA 2 mg/m ³ TWA
Portugal - TWAs	2 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	2 mg/m ³ TWA this value is for the particulate matter that is free from Asbestos and contains less than 1% of Crystalline silica
Sweden - OEL - 8 Hour	2 mg/m ³ LLV (totalt)
UK EH40 WEL:	1 mg/m ³ TWA

9. PHYSICAL AND CHEMICAL PROPERTIES**General information**

Physical state	Solid
Color:	light grey, beige
Odor:	Not significant

Important Health Safety and Environmental Information

Melting point/range:	No information available
Solubility:	Partly soluble
Vapour pressure	No information available
Vapour density	No information available
Explosive properties:	Doesn't present explosion hazard
Flammability (solid, gas):	Non-flammable

OTHER INFORMATION

pH:	No information available
Bulk density:	+/- 1000 kg/m ³
Viscosity	not applicable

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions
Conditions to Avoid	Nitrogen oxides (NO _x).
Incompatible Materials	Strong oxidizing agents. Acids and bases. Strong reducing agents. Flammable materials.
Hazardous Decomposition Products	No decomposition if stored normally.
Hazardous reactions	The product itself does not burn.

11. Toxicological Information

Component Information*Sand***LD50/oral/rat =** N.A.*Iron sulphate, FeSO₄+1H₂O***LD50/oral/rat =** 1389 mg/kg**Product Information****Local effects****Skin effects:** No information available.**Eye effects:** Risk of serious damage to eyes.**Inhalation** May cause sensitization by inhalation.**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

12. Ecological Information

Product Information**Aquatic toxicity:** No ecological information is known on the product.**Persistence and degradability** No persistent or cumulative effects were observed**Bioaccumulative potential** Does not bioaccumulate**Mobility in soil** No information available

Component Information*Sand*

Ecotoxicity effects

No information available

Iron sulphate, FeSO₄+1H₂O

Ecotoxicity effects

EC50/48h/daphnia =>100mg/l1

Talc

Ecotoxicity effects

No information available

13. Disposal Considerations**Waste Disposal Methods:**

Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations and national regulations. Dispose of in accordance with local regulations.***

Contaminated packaging:

Do not re-use empty containers. Dispose of as unused product. In accordance with local and national regulations.

14. Transport Information**Product Information****Physical state:**

solid

ADR/RID**UN-No:**

Not classified for transport

IATA**UN-No:**

Not classified for transport

IMO / IMDG**UN-No:**

Not classified for transport

15. Regulatory information**Indication of danger:**

The product is classified and labelled in accordance with Directive 1999/45/EC.

In accordance with local and national regulations**ICPE (FR):**

Not Applicable

16. OTHER INFORMATION**Text of R Phrases mentioned in Section 3**

R22 - Harmful if swallowed

R41 - Risk of serious damage to eyes

R36/38 - Irritating to eyes and skin

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Reason for revision: *** Indicates changes since the last revision. This version replaces all previous versions

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End of Safety Data Sheet