

## PRODUCT SAFETY DATA SHEET

VivaGreen Group, MossOff

Date: May/2018

Version No.: 4.0

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

#### **1.1: Product Identifier**

Trade name: MOSSOFF® (MULTI SURFACE, LAWN CARE)

#### **1.2: Relevant identified uses of the substance or mixture and uses advised against**

Registered uses: Moss removal product for lawns and surfaces.

Uses advised against: None known.

#### **1.3: Details of the supplier of the safety data sheet**

Company name: VivaGreen Group

Manufacturer address: VivaGreen Group

DMG House, Deansgrange Business Park,

Deansgrange,

Dublin, Ireland

Telephone: UK 020 3808 9124

International 00353 19059909

Email (for SDS enquiries): [office@vivagreengroup.com](mailto:office@vivagreengroup.com)

#### **1.4: Emergency telephone number**

UK: Dial 111 (24 hours, Public)

National Poisons Information Service, UK

Ireland: 0035318092566 (24 hours, Healthcare professionals only)

0035318092166 (8.00 am - 10.00 pm 7 days/week, Public)

National Poisons Information Centre, Beaumont Hospital, Dublin 9

### **Section 2: Hazards Identification**

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

Classification under CLP: Skin irritant 2: H315

Eye irritant 2: H319

#### **2.2 Label Elements (In compliance with EC Regulation No. 1272/2008 (CLP), as amended)**

Hazard pictograms:



Signal word:

Warning

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**H-Statements**

H319	Causes serious eye irritation
H315	Causes skin irritation

**Precautionary-Statements**

P 102	Keep out of reach of children
P 264	Wash hands thoroughly after use
P 280	Wear protective gloves and eye protection/face protection

**Precautionary-Statement-Response**

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337 + P313	If eye irritation persists, get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P332 + p313	If skin irritation occurs: get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.

**2.3 Other hazards**

No other hazards identified.

**Section 3: Composition/information on ingredients**

CAS No	EC No	Chemical Name	Classification*	Content %
10326-41-7	209-954-4	Lactic acid (2-Hydroxypropanoic acid)	Skin corr. 1: H314 Eye dam. 1: H318	< 2%
24634-61-5	246-376-1	Potassium sorbate	Eye irrit. 2: H319	< 1%

\*For full text of H statements see Section 16

**Section 4: First Aid Measures**

**4.1 Description of first aid measures**

General advice

No known delayed effects.

Following inhalation

Move to fresh air. Obtain medical attention if necessary.

Following skin contact

Carefully wash affected area immediately with plenty of water. Remove contaminated clothing. If necessary, seek medical advice.

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Following eye contact

Rinse eyes immediately with plenty of water. Remove contact lenses if safe to do so. Continue rinsing. Seek medical attention.

After ingestion

Clean mouth with water and drink plenty of water. Do NOT induce vomiting. Obtain medical attention.

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

The product is not acutely toxic via the oral, dermal or inhalation route. The product is classified as irritating to the skin and eyes. There is no concern for adverse systemic effects.

**4.3 Indication of any immediate medical attention and treatment needed**

Not applicable. Treat symptomatically.

**Section 5: Firefighting Measures**

**5.1 Extinguishing media**

No special procedures are required as the product is an aqueous solution.

Suitable extinguishing media:

Use extinguishing measures that are appropriate for surrounding materials.

Unsuitable extinguishing media:

None known.

**5.2 Special hazards arising from the substance or mixture**

None

**5.3 Protection for firefighters**

Fire-fighters should wear appropriate protective equipment.

**Section 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

When handling product, wear suitable gloves and eye/face protection.

**6.2 Environmental Precautions**

No special environmental precautions are recommended.

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**6.3 Methods and materials for containment for cleaning up**

After spillage or leakage, remove the waste by flushing with plenty of cold or hot water. Material on floor can be a slipping hazard.

**Section 7: Handling and Storage**

**7.1 Precautions for safe handling**

Protective measures:

Avoid contact with skin and eyes where possible.

Advice on general occupational hygiene:

Avoid ingestion and contact with skin and eyes. Handle product in accordance with good industrial hygiene and safety procedures. No drinking, eating and smoking while handling product. Wash hands after use.

**7.2 Conditions for safe storage, including any incompatibilities**

Store product in cool ventilated area. Specific instructions regarding separation from incompatible products are not relevant.

**7.3 Specific end use(s)**

See product use, Section 1.2.

**Section 8: Exposure controls/personal protection**

**8.1 Control parameters**

No exposure limits established.

**8.2 Exposure controls**

**Eye/face protection:** As the product is classified as irritating to the eyes, it is advised that the consumer wears suitable eye/face protection, such as, tight-fitting goggles with side shields, or wide-vision full goggles.

**Skin protection:** Since the product is classified as irritating to the skin, it is advised that the consumer wears protective gloves.

**Section 9: Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

<b>Form/state</b>	Liquid	<b>Explosion limit</b>	None explosive
<b>Colour</b>	Yellowing	<b>Vapour pressure</b>	No data available
<b>Odour</b>	Slightly oily	<b>Vapour density</b>	No data available

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<b>Odour threshold</b>	No data available	<b>Relative density</b>	1.1 g/ml (20°C)
<b>pH</b>	4.4 (diluted in use)	<b>Solubility in water</b>	Miscible
<b>Melting point</b>	No data available	<b>Part. Coeff. N-octanol/water</b>	No data available
<b>Freezing point</b>	No data available	<b>Auto-ignition temperature</b>	No data available
<b>Initial boiling point</b>	105°C	<b>Decomposition temperature</b>	No data available
<b>Boiling range</b>	No data available	<b>Viscosity</b>	No data available
<b>Flash point</b>	No data available	<b>Explosive properties</b>	No data available
<b>Evaporation rate</b>	No data available	<b>Oxidizing properties</b>	No data available
<b>Flammability</b>	No data available	<b>Specific Gravity</b>	No data available

**9.2 Other information**

No data available.

**Section 10: Stability and Reactivity**

**10.1 Reactivity**

No thermal decomposition if used as directed.

**10.2 Chemical stability**

Stable under normal conditions of use and storage.

**10.3 Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions.

**10.4 Conditions to avoid**

No information available.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

In case of complete combustion, the decomposition products nitrogen oxides (NO<sub>x</sub>), carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O) are formed.

**Section 11: Toxicological Information**

**11.1 Information on toxicological effects**

This product does not contain any toxic ingredients. No health effects are expected from normal use when following the correct directions for use.

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Acute Toxicity	Not classified
Eye damage/irritation:	Eye irritant 2
Skin corrosion/irritation:	Skin Irritant 2
Respiratory or Skin sensitisation:	No
STOT (single exposure):	Not determined
STOT (repeated):	Not determined
Germ cell mutagenicity:	Not determined
Carcinogenicity:	Not determined
Reproductive and lactation toxicity:	Not determined
Aspiration hazard:	Not determined

**General remarks**

The product was classified on the basis of the calculation procedure of the CLP Regulation. Toxicological data on the complete product is not available.

**Section 12: Ecological Information**

**12.1 Toxicity**

**General remarks**

The product was classified on the basis of calculation procedure of the CLP Regulation. Ecological data of complete product are not available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bio accumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

This product is not identified as a PBT/vPvB substance.

**12.6 Other adverse effects**

Ecological data of complete product are not available. Based on the calculation procedure of the CLP Regulation no ecological classification is required.

**Section 13: Disposal Considerations**

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**13.1 Waste treatment methods**

Disposal should be in accordance with local, state and federal regulations. Taking into consideration the local authority regulations, it may be land-filled or incinerated together with household refuse.

The used packing is only meant for packing this product; it should not be reused for other purposes. After usage, empty the packing completely.

**Section 14: Transport Information**

**14.1 UN Number**

No information available.

**14.2 UN proper shipping name**

No information available.

**14.3 Transport hazard classes**

No information available.

**14.4 Packing group**

No information available.

**14.5 Environmental hazards**

No information available.

**14.6 Special precautions for user**

No information available.

**Section 15: Regulatory Information**

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

Not applicable.

**15.2 Chemical Safety Assessment**

A chemical safety assessment has been carried out for the substances in this mixture.

**Section 16: Other Information**

Hazard statements:

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- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H218 Causes serious eye damage

Precautionary statements:

- P102: Keep out of reach of children.
- P264: Wash hands thoroughly after use.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements response:

- P305 IF IN EYES:
- P351 Rinse cautiously with water for several minutes
- P338 Remove contact lenses, if present and easy to do so. Continue rinsing.
- P337 If eye irritation persists:
- P313 Get medical advice/attention
- P302 IF ON SKIN:
- P352 Wash with plenty of soap and water
- P332 If skin irritation occurs:
- P313 Get medical advice/attention
- P362 Take off contaminated clothing and wash before use

Abbreviations:

- PBT: persistent, bio accumulative, toxic chemical
- STEL: short-term exposure limit
- vPvB: very persistent, very bio accumulative chemical

Legal disclaimer:

The opinions expressed herein are those of experts in Vivagreen. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of these opinions and of this information and the conditions of use of the product are not under the control or supervision of Vivagreen, it is the user's obligation to determine the conditions of safe use of the product.