

PRODUCT SAFETY DATA SHEET

VivaGreen Group, MossOff

Date: May/2018

Version No.: 4.1

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

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 | >0%< 3% |
| 24634-61-5 | 246-376-1 | Potassium sorbate | Eye irrit. 2: H319 | >0%<3% |

*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

| | | | |
|-------------------|---------------|------------------------|-------------------|
| Form/state | Liquid | Explosion limit | None explosive |
| Colour | Yellowing | Vapour pressure | No data available |
| Odour | Slightly oily | Vapour density | No data available |

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| | | | |
|------------------------------|----------------------|-------------------------------------|-------------------|
| Odour threshold | No data available | Relative density | 1.1 g/ml (20°C) |
| pH | 4.4 (diluted in use) | Solubility in water | Miscible |
| Melting point | No data available | Part. Coeff. N-octanol/water | No data available |
| Freezing point | No data available | Auto-ignition temperature | No data available |
| Initial boiling point | 105°C | Decomposition temperature | No data available |
| Boiling range | No data available | Viscosity | No data available |
| Flash point | No data available | Explosive properties | No data available |
| Evaporation rate | No data available | Oxidizing properties | No data available |
| Flammability | No data available | Specific Gravity | 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_x), carbon dioxide (CO₂) and water (H₂O) 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.