

# MATERIAL SAFETY DATA SHEET

## MossKade®

FILE NO.: 004

MSDS DATE: 8/28/14

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### 1. Identification of the product and company

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**Name product:** MossKade®

**Product owner:** HortiPro B.V.  
Jagerserf 49  
3851 SM ERMELO  
www.hortipro.com  
info@hortipro.com

**Telephone numbers:** +31 (0)341-268639, +31(0)6-51458659, +31(0)6-46635374  
**Technical information:** +31 (0)341-268639, +31(0)6-51458659, +31(0)6-46635374

**Notice:** MossKade® is being used as a coating on concrete, rocks, wood, tiles, soil plants etc. for removal of algae, moss and liverwort.

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### 2. Contents and information about the ingredients.

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**Ingredients:** Suspension of wheat glutes in water (50-55% dry matter)  
Stabilised with plant oil, lactic acid and other plant originated food additives

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### 3. Identification and hazards

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All ingredients are food grade and have an 'E'-number  
Non of the ingredients need a hazard identification or sign in the product, except lactic acid when supplied as a pure product.

#### Lactic acid when pure

CAS nr. 598-82 (2-dihydroxypropane acid) used as a concervation additive for MossKade®. The concentration in the product is less then 10%. This is comparable with 3 time the amount in yohgurt or cheese.

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### 4. First Aid

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**Eyes:** Rinse out the eyes with clean water. When burning remains, contact a docter. (S26)  
**Skin:** Rinse immediately with plenty of water (S28)

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### 5. Fire control

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MossKade is a water based agent, no specific fire control is needed.

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### 6. Measures Accidental release of substance

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For personal protection see papagraph 8. No special environmental measures are required.  
In case of accidental release, for example leakage: floors can be slippery. Remove the product with plenty of water.

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### 7. Handling and storage.

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Store the product in a cool ventilated area. No special measures are needed to separate from other products the product. (None ADR applicable)

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### 8. Measures Exposure controls / personal protection.

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To avoid (Section 3) potential hazards, if with handling the product risk of contact with eyes and skin:

**Eyes:** Wear eye protection (S39)  
**Skin:** Wear gloves (S37)

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### 9. Physical and chemical properties

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<b>Form:</b>	Liquid
<b>Colour:</b>	Yellow / Brown
<b>Odour:</b>	slightly oily
<b>pH value:</b>	3.5
<b>Density (20 ° C):</b>	1,1 kg/dm <sup>3</sup>
<b>Boiling point:</b>	105 ° C
<b>Solubility in water:</b>	Miscible with water in all proportions
<b>Flash point:</b>	No development volatile / flammable vapors during heating
<b>Explosive properties:</b>	None

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### 10. Stability and reactivity

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There is no thermal decomposition during normal use.  
In case of complete combustion, nitrogen oxides (NO<sub>x</sub>), carbon dioxide (CO<sub>2</sub>) and water H<sub>2</sub>O will arise.

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### 11. Toxicological information

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Product is not toxic or harmful and does not contain ingredients that may be classified as such.  
For ingredient lactic true in pure form: LD50: 3543 mg / kg (rat, oral)  
Irritation: Skin rat: 500/mg/24 am serious irritation  
Eye rat 750 ug / kg seriously  
not carcinogenic

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### 12. Ecological information

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MossKade® is not ecotoxic. For ingredient lactic applies, in pure form (MossKade <10%):  
Biodegradability (BOD): 5 days - 72%  
Environmental Toxicity: 430ppm /> 100 hours goldfish / no effect / fresh water.  
654ppm / 6 hours / goldfish / death / freshwater

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### 13. Disposal

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Can be disposed of with regular waste (landfill, incineration)

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### 14. Information related to transportation

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This product is not subject to a hazard class in accordance with international regulations on transport by air, water and land.  
No ADR applicable.

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### 15. Regulatory informatio4

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The product does not require by law applicable information

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### 16. Other information

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Sources:

- EU 67/548/EEG
- EU 987/2008
- Material Safety Data Sheets from suppliers of independent ingredients.