

MATERIAL SAFETY DATA SHEET

MossKade®

FILE NO.: 004

MSDS DATE: 8/28/14

1. Identification of the product and company

Name product: MossKade®

Product owner: HortiPro B.V.
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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.

2. Contents and information about the ingredients.

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

3. Identification and hazards

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.

4. First Aid

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

5. Fire control

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

6. Measures Accidental release of substance

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.

7. Handling and storage.

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

8. Measures Exposure controls / personal protection.

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

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

10. Stability and reactivity

There is no thermal decomposition during normal use.
In case of complete combustion, nitrogen oxides (NO_x), carbon dioxide (CO₂) and water H₂O will arise.

11. Toxicological information

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

12. Ecological information

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

13. Disposal

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

14. Information related to transportation

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

15. Regulatory informatio4

The product does not require by law applicable information

16. Other information

Sources:

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