MATERIAL SAFETY DATA SHEET

Date of issue: 05 September 2014
Revision date: not applicable

1. Identification of the substance / Mixture and of the company / Undertaking

1.1 Product identifier
Product name: Metadichol 0.5%

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Food supplement

1.3 Details of the supplier of the safety data sheet
Company: Micro-Sphere SA
Via Cantonale 77
CH-6996 Ponte Crementa
Switzerland

Telephone: +41-91-986 70 70
Fax: +41-91-986 70 71
E-mail address: info@micro-sphere.com

1.4 Emergency telephone number
Emergency phone number: +41-76-491 95 69

2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
None.

Classification according to EU Directives 67/548/EEC or 1999/45/EC
None.

2.2 Label elements
The preparation should not be considered as dangerous according to dir. 1999/45/EC.

2.3 Other hazards
No other hazards.

3. Composition / Information on ingredients

3.1 Substances
Not applicable.

3.2 Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No/EC No.</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policosanol</td>
<td>142583-61-1</td>
<td>Not classified</td>
<td>0.1 - 1 %</td>
</tr>
<tr>
<td>Sucrose fatty acid esters</td>
<td>37266-93-6</td>
<td>GHS05</td>
<td>0.1 - 1 %</td>
</tr>
<tr>
<td>Potassium sorbate</td>
<td>590-00-1</td>
<td>GHS07</td>
<td>0.01 - 0.5 %</td>
</tr>
<tr>
<td>Citric acid monohydrate</td>
<td>5949-28-1</td>
<td>GHS07</td>
<td>0.01 - 0.5 %</td>
</tr>
<tr>
<td>Vitamin E polyethylene</td>
<td>9002-96-04</td>
<td>Not classified</td>
<td>0.5 - 5 %</td>
</tr>
<tr>
<td>Glycol 1000 succinate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. First aid measures

4.1 Description of first aid measures

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General advice
In case of accident or if you feel unwell, seek medical advice immediately. Show this safety data sheet to the doctor in attendance.

If inhaled
Remove casualty to fresh air and keep warm and at rest.

In case of skin contact
Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

In case of eye contact
Rinse immediately with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention if symptoms persist.

In case of ingestion
Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed
None.

4.3 Indication of any immediate medical attention and special treatment needed
None.

5. Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media
Carbon dioxide, foam, extinguishing powder or water spray.

5.2 Special hazards arising from the substance or mixture
Do no inhale explosion and combustion gases. Can decompose under effect of heat with emission of toxic fumes includings carbon oxides and carbon dioxide.

5.3 Advice for firefighters
Use suitable breathing apparatus and protective clothing.

5.4 Further information
None.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with eyes and skin, use protective gloves.

6.2 Environmental precautions
Avoid release to the environment. Do not empty into drains.

6.3 Methods and materials for containment and cleaning up
Remove spillage. Absorb with an inert dry material. Wash with plenty of water.

6.3 Reference to other sections
For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Provide adequate ventilation. Prevent build-up of electrostatic charges.

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7.2 Conditions for safe storage, including any incompatibilities
Store in a cool place, protected from direct sunlight and moisture. Keep container closed.
Recommended storage temperature: 15°C – 25°C

7.3 Specific end uses
Liquid solution for human food supplementation.

8. Exposure controls / Personal protection

8.1 Control parameters
No OELs set by competent authorities available.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Work in an area with general and local ventilation, if possible in a contained area.

Personal protective equipment

Eye/face protection
Wear chemical goggles.

Skin protection
Wear chemical compatible gloves.

Body protection
Wear suitable protective clothing.

Respiratory protection
Avoid inhalation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Light opalescent solution, transparent with yellow/light blue reflections
b) Odour Slightly acid
c) Odour Threshold No data available
d) pH 4.3 – 4.7
e) Melting point/freezing point No data available
f) Initial boiling point and boiling rate No data available
g) Flash point No data available
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available
j) Upper/lower flammability or explosive limits No data available

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k) Vapour pressure
   No data available

l) Vapour density
   No data available

m) Relative density
   0.95 – 1.05 g/cm³

n) Water solubility
   Soluble

o) Partition coefficient: n-octanol/water
   No data available

p) Autoignition temperature
   No data available

q) Decomposition temperature
   No data available

r) Viscosity
   No data available

s) Explosive properties
   No data available

t) Oxidizing properties
   No data available

9.2 Other safety information
None.

10. Stability and Reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
No data available.

10.6 Hazardous decomposition products
No data available.

11. Toxicological information

11.1 Information on toxicological effects
The toxicological effects of the finished product have not been thoroughly investigated.
Concentration of the single substance is to be considered in order to evaluate the toxicological
effects of the product.

Acute toxicity
No data available.

Skin corrosion / irritation
No data available.

Serious eye damage / eye irritation
No data available.

Respiratory or skin sensitization
No data available.
Germ cell mutagenicity
No data available.

Carcinogenicity
No data available

Reproductive toxicity
No data available.

Specific target organ toxicity – single exposure
No data available.

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
No data available

12. Ecological information

12.1 Toxicity
No data available.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
No data available.

12.6 Other adverse effects
No data available.

13. Disposal considerations

13.1 Waste treatment methods

Product
Disposal must be made according to official regulations.

Contaminated packaging
Disposal must be made according to official regulations.

14. Transport information

14.1 UN number
Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name
Not applicable.

14.3 Transport hazard class(es)
Not applicable.

14.4 Packaging group

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14.5 Environmental hazards
Not applicable.

14.6 Special precautions for user
Not applicable.

15. Regulatory information
This safety datasheet complies with the requirements of Regulation (EC) no. 1907/2006.

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
No data available

16. Other information

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Micro-Sphere SA and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.