Section 1. Chemical Product and Company Identification

Product No. CM1048
Trade name MULLER-KAUFMANN TETRATHIONATE BROTH
Manufacturer Oxoid Ltd
Wade Road
Basingstoke
Hants.
RG24 8PW
Tel. 44 (0) 1256 841144
Fax. 44 (0) 1256 463388

Emergency telephone number CareChem24: + 44 (0)1865 407333

Section 2. Composition, Information on Ingredients

Preparation - Hazardous ingredients (Europe)

Component Concentration Classification Risk Phrases

Calcium Carbonate CAS No. / EINECS Number
1317-65-3 48.10 % w/w

Section 3. Hazards Identification

Most Important Hazards Not classified as hazardous.

Human health hazards - Eyes May cause slight transient irritation.
Human health hazards - Skin Material may cause irritation.
Human health hazards - Ingestion A large dose may have the following effects:- diarrhoea, nausea, vomiting.
Human health hazards - Inhalation Exposure to dust at high concentrations may have the following effects:- irritation of nose, throat and respiratory tract.

Section 4. First Aid Measures

First Aid - Eyes Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists.
First Aid - Skin Wash skin with soap and water.
First Aid - Ingestion Avoid hand to mouth contact. If ingested, seek medical advice. Have victim drink 1-3 glasses of water to dilute stomach contents.
First Aid - Inhalation Remove from exposure. Seek medical attention if you feel unwell.

Section 5. Fire Fighting Measures

Extinguishing Media - Suitable Use water spray, foam, dry chemical or carbon dioxide.

Section 6. Accidental Release Measures

Personal Precautions Wear appropriate protective clothing.
Spill Sweep up into suitable containers for recovery or disposal. Finally flush area with plenty of water.
Section 7. Handling and Storage

Handling
Avoid inhaling dust. Avoid contact with eyes, skin and clothing.

Storage
Store at room temperature. Keep well closed and protected from direct sunlight and moisture.

Section 8. Exposure Controls, Personal Protection

Occupational Exposure Limits (Preparation) - Europe
Calcium Carbonate
- Total inhalable dust UK EH40: OES 10 mg/m3 8hr TWA.
- Respirable dust UK EH40: OES 4mg/m3 8hr TWA.

Protective Measures - Respiratory
Recommended: Dust mask to EN149 FFP2S.

Protective Measures - Hands
Disposable vinyl gloves.

Protective Measures - Eyes
Safety glasses or chemical goggles to EN166, 167 and 168.

Section 9. Physical and Chemical Properties

Physical state
Powder.

Colour
Straw

pH
8.0 - 8.4

Section 10. Stability and Reactivity

Stability
Hygroscopic. Stable under recommended storage and handling conditions (see section 7).

Conditions to Avoid
Exposure to direct sunlight.

Section 11. Toxicological Information

Acute toxicity
Low order of acute toxicity.
Oral LD50 (rat) > 2000 mg/kg.
Dermal LD50 (rabbit) > 2000 mg/kg.
Inhalation LC50 (rat) > 20 mg/litre/4h.

Eye irritation
The degree of irritation was insufficient to warrant labelling as an eye irritant.

Skin irritation
The degree of irritation was insufficient to warrant labelling as a skin irritant.

Section 12. Ecological Information

Ecotoxicity
No relevant studies identified.

Section 13. Disposal Considerations

Disposal considerations
Dispose of according to all federal, state and local applicable regulations.

Container information
Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

Section 14. Transport Information

UN : UN number
Not classified.
### Section 15. Regulatory Information

<table>
<thead>
<tr>
<th><strong>Risk Phrases</strong></th>
<th>Not applicable.</th>
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</thead>
<tbody>
<tr>
<td><strong>Safety Phrases</strong></td>
<td>Avoid contact with skin and eyes.</td>
</tr>
<tr>
<td><strong>EC Classification</strong></td>
<td>This preparation is not classified as dangerous according to the EC Directive 88/379/EEC.</td>
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### Section 16. Other Information

<table>
<thead>
<tr>
<th><strong>MSDS first issued</strong></th>
<th>06/09/2005</th>
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