1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: OXFORD AGAR BASE MODIFIED
Cat No.: R454231, R454232, R454234, R454236
Synonyms: No information available.
Recommended Use: Laboratory chemicals

Company: Remel
12076 Santa Fe Drive
Lenexa, KS 66215 United States
Telephone: 1-800-255-6730
Fax: 1-800-621-8251

Entity / Business Name: Remel
12076 Santa Fe Drive
Lenexa, KS 66215 United States
Telephone: 1-800-255-6730
Fax: 1-800-621-8251

Emergency Telephone Number: INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

The product is classified as dangerous in accordance with Directive 1999/45/EC or 67/548/EEC.

Xi

R -phrase(s)

R36/38 - Irritating to eyes and skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight %</th>
<th>EC No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium chloride</td>
<td>20%</td>
<td>EEC No. 231-212-3</td>
<td>Xn; R21/22</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xi; R36/38</td>
</tr>
<tr>
<td>Ferric ammonium citrate</td>
<td>1%</td>
<td>EEC No. 214-686-6</td>
<td>-</td>
</tr>
<tr>
<td>1185-57-5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the R phrases mentioned in this Section, see Section 16
4. FIRST AID MEASURES

Eye Contact  Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact  Wash off with warm water and soap. If skin irritation persists, call a physician.
Ingestion  Do not induce vomiting. Obtain medical attention.
Inhalation  Move to fresh air. If symptoms persist, call a physician.
Notes to Physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Extinguishing media which must not be used for safety reasons  No information available.
Specific Hazards Arising from the Chemical  Keep product and empty container away from heat and sources of ignition
Protective Equipment and Precautions for Firefighters  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Flash Point  Not applicable
Method  No information available.
Autoignition Temperature  No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions  Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Environmental Precautions  Prevent further leakage or spillage if safe to do so
Methods for Containment and Clean Up  Sweep up or vacuum up spillage and collect in suitable container for disposal

7. HANDLING AND STORAGE

Handling  Avoid contact with skin and eyes.
Storage  Keep container tightly closed in a dry and well-ventilated place
Specific use(s)  No information available.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>European Union</th>
<th>The United Kingdom</th>
<th>Belgium</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric ammonium citrate</td>
<td></td>
<td>STEL: 2 mg/m³</td>
<td>TWA: 1 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
<th>Denmark</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric ammonium citrate</td>
<td>MAK: 1 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Occupational exposure controls

Engineering Measures
Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Eye Protection
Tightly fitting safety goggles

Skin and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure

Hand Protection
Protective gloves

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability
Stable under recommended storage conditions. Hygroscopic.

Conditions to Avoid
Incompatible products

Incompatible Materials
Strong oxidizing agents

Hazardous Decomposition Products
None under normal use

Hazardous Polymerization
No information available
Hazardous Reactions . None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium chloride</td>
<td>526 mg/kg (Rat)</td>
<td>1488 mg/kg (Rat)</td>
<td></td>
</tr>
</tbody>
</table>

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Neurological Effects No information available.

Mutagenic Effects No information available.

Reproductive Effects No information available.

Developmental Effects No information available.

Target Organs No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and Degradability No information available

Bioaccumulative Potential No information available.

Mobility No information available.

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium chloride</td>
<td>0</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products Dispose of in accordance with local regulations
Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO
Not regulated

ADR
Not regulated

IATA
Not regulated

15. REGULATORY INFORMATION

The product is classified as dangerous in accordance with Directive 1999/45/EC or 67/548/EEC

Labelling

R -phrase(s)
R36/38 - Irritating to eyes and skin

S -phrase(s)
S24/25 - Avoid contact with skin and eyes

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>PICCS</th>
<th>ENCS</th>
<th>CHINA</th>
<th>AICS</th>
<th>KECL</th>
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<tr>
<td>Lithium chloride</td>
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<td>-</td>
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<td>X</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>KE-22552</td>
</tr>
<tr>
<td>Ferric ammonium citrate</td>
<td>214-686-6</td>
<td>-</td>
<td></td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
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<td>KE-01694</td>
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</tbody>
</table>

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3
16. OTHER INFORMATION

R21/22 - Harmful in contact with skin and if swallowed
R36/38 - Irritating to eyes and skin

Prepared By: Regulatory Affairs
Creation Date: 12-Oct-2010
Revision Date: 12-Oct-2010
Revision Summary: "***", and red text indicates revision
Restrictions on use: No information available.
Training advice: No information available.
Literary reference: No information available.

Disclaimer:
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End of Safety Data Sheet