MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Polycell Mortalift (511001)
Company Name: Kansai Plascon (Pty) Ltd
Address: P.O. Box 4010
Luipaardsvlei
1743
Telephone: (011) 951 4500
Facsimile: (011) 955 2841
Contact Person: Mr. C. Costa

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Class: Acids
Classification: C
R Phrases: R34, 37
S Phrases: S1/2, 26, 38, 45

<table>
<thead>
<tr>
<th>Hazardous and/or other relevant Components</th>
<th>% (w/w)</th>
<th>CAS No.</th>
<th>E.C. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCHLORIC ACID</td>
<td>30-33</td>
<td>7647-01-0</td>
<td>017-002-01-X</td>
</tr>
</tbody>
</table>

SECTION 3. HAZARDS IDENTIFICATION

SAPMA Health Rating: 1-SERIOUS – Major injury likely unless prompt action taken and treatment given
Inhalation: CORROSIVE
Skin: Highly corrosive, causes severe burns
Eyes: Highly corrosive- irreversible damage possible
Ingestion: TOXIC

Material is potentially carcinogenic.
Medium to long-term environmental effects; contain, collect & remove.

SECTION 4. FIRST AID MEASURES

Inhalation: Move to fresh air. Administer oxygen if breathing difficult. In case of discomfort seek medical attention.
Skin: Drench with water. Remove contaminated clothing. Use a skin cleaner/soap. Refer to doctor.
Eyes: Rinse immediately with plenty of water. Refer to doctor immediately
Ingestion: Wash mouth with plenty of water. Do NOT induce vomiting. Seek immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Non combustible, no direct explosion hazard expected.
In case of fire, use foam, or dry powder. Use fog to cool and control. Do not use water jets.
Cool containers in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES - SEE ALSO SECTIONS 5, 8, 13

Contain & collect spillage – neutralise with a dilute alkali before flushing to sewer or effluent.
Do not allow product to enter storm water drains.
SECTION 7. HANDLING AND STORAGE

Acidic - corrosive: Keep out of contact with metals and any reactive substances. Store only in original containers. Store only in designated areas.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>NAME</th>
<th>CAS</th>
<th>OEL (mg/m$^3$)</th>
<th>OEL (ppm)</th>
<th>STOEL (mg/m$^3$)</th>
<th>STOEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCHLORIC ACID</td>
<td>7647-01-0</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>5 RL</td>
</tr>
</tbody>
</table>

(CL/RL = Controlled/Recommended level 'S' = Skin annotation)

SAPMA Rating: 1-H-G  PPE - Respirator and impervious clothing
Inhalation: Vapours hazardous – Special Inorganic respirator required.
Skin: Avoid any contact. Use impervious gloves, apron and boots.
Eyes: Use face shield & goggles or full respirator hood. Do not touch eyes with dirty hands or gloves.
Ingestion: Observe the rules of hygiene. Wash before eating, drinking or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to slight yellow liquid with sharp, pungent and irritating odour.
Freezing point: < 0°C
Boiling point: 110 °C (20% solution)
Density: 1.19 (typical)
Solubility: Soluble in water

SECTION 10. STABILITY AND REACTIVITY

Stable under normal conditions. Inert - no reaction with fire-fighting water. Reacts with most metals and evolves highly flammable hydrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

No carcinogenic, mutagenic or genetic effects established.
LD50 Oral: 900 mg (rabbit)  LC50 Inhalation: 3124 mg (rabbit)

SECTION 12. ECOLOGICAL INFORMATION

May have medium to long-term environmental effects; contain, collect & remove.

SECTION 13. DISPOSAL INFORMATION

Highly hazardous/corrosive. Use reputable waste disposal contractors. Destroy used containers.

SECTION 14. TRANSPORT INFORMATION

SIN/UN Number: 1789
Shipping Name: HYDROCHLORIC ACID SOLUTION
Packaging Group: II
Class: 8
**SECTION 15. REGULATORY INFORMATION**

**Classification:**  
C (Corrosive)

- **R34**  Causes burns
- **R37**  Irritating to the respiratory system
- **S1/2**  Keep locked up and out of reach of children (Retail sales items)
- **S26**  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **S38**  In case of insufficient ventilation, wear suitable respiratory equipment
- **S45**  In case of accident or if you feel unwell, seek medical advice immediately (show container or label where possible)

**SECTION 16. OTHER INFORMATION**

In case of any discomfort always seek medical advice.

All information is given in good faith but without guarantee in respect of accuracy. No responsibility is accepted for errors or omissions or the consequences thereof.