MATERIAL SAFETY DATA SHEET
SODIUM PERBORATE TETRAHYDRATE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

| Product Name: | Sodium Perborate Tetrahydrate |
| Supplier: | SDC Enterprises Limited |
| | Unit 29, Pitcliffe Way |
| | Upper Castle Street |
| | Bradford BD5 7SG |
| Emergency Telephone: | +44 (0) 1274 750160 |
| | sales@sdcenterprises.co.uk |

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS NO.</th>
<th>CONTENTS</th>
<th>EC No</th>
<th>RISK (R NO.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Perborate Tetrahydrate</td>
<td>10486-00-7</td>
<td>30-100%</td>
<td>239-172-9</td>
<td>R8, R22, R37, R41 R61, R62</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Classification: O: Oxidising, Xn: Harmful, Xi: Irritant
R8: Contact with combustible material may cause fire
R22: Harmful if swallowed
R37: Irritating to respiratory system
R41: Risk of serious damage to eyes
R61: May cause harm to unborn child
R62: Possible risk of impaired fertility

4. FIRST AID MEASURES

Inhalation: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get prompt medical attention.

Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth with water. Get medical attention immediately!

Skin Contact: Remove affected person from source of contamination. Rinse the skin immediately with lots of water. Get medical attention promptly if symptoms occur after washing.

Eye Contact: Promptly wash eyes with plenty of water for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control.

Unusual Fire & Explosion Hazards: No unusual fire or explosion hazards noted

6. ACCIDENTAL RELEASE MEASURES

Spill Clean Up Methods: Absorb in vermiculite, dry sand or earth and place into containers. Avoid generation and spreading of dust. Subsequently wash areas with copious quantities of water. Inform Authorities if large amounts are involved.

7. HANDLING AND STORAGE

Usage Precautions: Avoid spilling, skin and eye contact. Avoid acids, moisture, and combustible materials. Ventilate well, avoid breathing vapours. Used approved respirator if air contamination is above accepted level. Do not breathe dust.

Storage Precautions: Store in tightly closed container in a cool, dry well-ventilated place. Keep away from acids, metal powders and organic material. Equipment for handling, storing and using sodium perborate and its solutions must be made of non-reactive materials, such as glass, ceramics, stainless steel and certain plastics. Store in accordance with H.S.E. guidance note HS(G) 71.

Storage Class: Chemical storage
8. PERSONAL PROTECTION AND EXPOSURE CONTROLS

**PROTECTIVE EQUIPMENT:**

<table>
<thead>
<tr>
<th>Protective Equipment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory Equipment</td>
<td>Use Dust masks to BS2091 Type B or equivalent. Dust filter P2 (for fine dust)</td>
</tr>
<tr>
<td>Hand Protection</td>
<td>Use protective gloves made of : Rubber or plastic</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Wear approved safety goggles</td>
</tr>
<tr>
<td>Other Protection</td>
<td>Provide eyewash, quick drench</td>
</tr>
<tr>
<td>Std</td>
<td>WEL</td>
</tr>
<tr>
<td>LT-mg/m³</td>
<td>7 mg/m³</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Crystals or crystalline powder, dust.
**Colour:** White
**Odour:** Odourless
**Solubility:** Soluble in water
**pH Value Diluted Solution:** 10.0–10.4 at 10g/L @ 25°C

10. STABILITY AND CHEMICAL PROPERTIES

**Stability:** Stable under normal temperature conditions
**Conditions to Avoid:** Avoid heat, flames and other sources of ignition. Avoid contact with: Strong alkalis
**Materials to Avoid:** Strong reducing agents. Powdered metal. Other metals or alloys

11. TOXICOLOGICAL INFORMATION

**Name:** Sodium Perborate Tetrahydrate
**Toxic Dose 1-LD 50:** 1200 mg/kg (oral rat)
**Toxic Dose 2-LD 50:** >2000 mg/kg (skin-rat)
**Inhalation:** May cause irritation to the respiratory system
**Ingestion:** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
**Skin Contact:** Irritating to skin
**Eye Contact:** Irritating and may cause redness and pain
**Health Warnings:** This chemical may cause skin/eye irritation.
**Eyes, Nose & Mouth:** Repeated exposure may cause chronic eye irritation.
**Skin:** Mild dermatitis, allergic skin rash.

12. ECOLOGICAL INFORMATION

**Name:** Sodium Perborate
**LC 50, 96 Hrs, Fish mg/l:** 51
**EC 50, 48 Hrs, Daphnia, mg/l:** 11
**IC 50, 96 Hrs, Algae, mg/l:** 26.8
**Ecotoxicity:** Not regarded as dangerous for the environment.
**Degradability:** Decomposes over time with generation of water and oxygen.
**Acute Fish Toxicity:** Aquatic toxicity: LD50/24h/Rainbow Trout = 160-320 mg/l
**Water Hazard Classification:** Contains no ingredients classified as Toxic or Very Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

No transport warning sign required
### 15 REGULATORY INFORMATION

**Labelling:**

![Chemical Symbols]

**Risk Phrases:**
- R8: Contact with combustible material may cause fire
- R22: Harmful if swallowed
- R37: Iritating to respiratory system
- R41: Risk of serious damage to eyes
- R61: May cause harm to unborn child
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**Detergent Labelling:** >30% oxygen-based bleaching agents.

**UK Regulatory References:**
- Classification, Packaging and Labelling Regulations 1984.
- CHIP 3 The Control of Substances Hazardous to Health Regulations 1994.

### 16. OTHER INFORMATION

**Revision Comments:**

Data sheet is in accordance with the CHIP regulations in force on the revision date given below. Revision is due to CHIP3. We have provided as much information on toxicity and ecotoxicity as our raw material manufacturers have made available at this time. This safety data sheet will be reviewed whenever new information comes to light. Includes Detergent Regulation labelling information.

<table>
<thead>
<tr>
<th>Revision Date:</th>
<th>10/09/2014</th>
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</thead>
<tbody>
<tr>
<td>Rev No / Replaces SDS Issued:</td>
<td>Rev No 6 / 29/01/2013</td>
</tr>
<tr>
<td>SDS Issue No:</td>
<td>7</td>
</tr>
<tr>
<td>UN Number</td>
<td>NR (NOT RESTRICTED)</td>
</tr>
<tr>
<td>IMCO Class</td>
<td>5.1</td>
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</table>

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