OXALIC ACID MSDS
Oxalic Acid

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: Oxalic Acid
SUPPLIER: Abbey Chemicals
27-30 North River Road
Great Yarmouth
Norfolk
NR30 1SH
Tel: +44 1493 850303
Fax: +44 1493 330909
www.abbey-chemicals.co.uk

SDS No.: O002
Emergency Contact Number (Office Hours): +44 1493 850303

2 HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed.

CLASSIFICATION: Xn;R21/22.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
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<tbody>
<tr>
<td>OXALIC ACID</td>
<td>205-634-3</td>
<td>144-62-7</td>
<td>50-100%</td>
<td>Xn;R21/22</td>
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</tbody>
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The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION
Move the exposed person to fresh air at once. Get medical attention.

INGESTION
Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

SKIN CONTACT
Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.

EYE CONTACT
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIFIC HAZARDS
Oxides of: Carbon.

PROTECTIVE MEASURES IN FIRE
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES
**Oxalic Acid**

**PERSONAL PRECAUTIONS**
Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust. Provide adequate ventilation. Avoid contact with eyes and prolonged skin contact.

**ENVIRONMENTAL PRECAUTIONS**
Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

**SPILL CLEAN UP METHODS**
Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

### 7 HANDLING AND STORAGE

**USAGE PRECAUTIONS**
Avoid spilling, skin and eye contact. Provide good ventilation.

**STORAGE PRECAUTIONS**
Keep containers tightly closed. Keep in original container.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>LT - ppm</th>
<th>LT - mg/m³</th>
<th>ST - ppm</th>
<th>ST - mg/m³</th>
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</thead>
<tbody>
<tr>
<td>OXALIC ACID</td>
<td></td>
<td>1 mg/m³</td>
<td>2 mg/m³</td>
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**PROTECTIVE EQUIPMENT**

**RESPIRATORY EQUIPMENT**
If ventilation is insufficient, suitable respiratory protection must be provided.

**HAND PROTECTION**
Nitrile gloves are recommended.

**EYE PROTECTION**
Goggles/face shield are recommended.

**OTHER PROTECTION**
Wear rubber apron. Wear rubber footwear.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARANCE**: Solid Powder, dust Granular
- **COLOUR**: White
- **ODOUR**: Odourless
- **SOLUBILITY**: Soluble in water Soluble in Ethanol.
- **MELTING POINT (°C)**: ~101.5
- **BULK DENSITY**: 800 - 900 kg/m³
- **PARTITION COEFFICIENT**: (N-Octanol/Water) -0.81
- **RELATIVE DENSITY**: 1.65
- **pH-VALUE, DILUTED SOLUTION**: 1.5

### 10 STABILITY AND REACTIVITY

**STABILITY**
Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**
Avoid excessive heat for prolonged periods of time.

**MATERIALS TO AVOID**
Strong oxidising substances.
Oxalic Acid

HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of: Carbon.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 7500 mg/kg (oral rat)

INHALATION
Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing.

INGESTION
Harmful if swallowed.

SKIN CONTACT
Harmful in contact with skin.

EYE CONTACT
Irritating to eyes.

12 ECOLOGICAL INFORMATION

EC 50, 48 Hrs, DAPHNIA, mg/l 137
IC 50, 72 Hrs, ALGAE, mg/l 1550

MOBILITY
The product is soluble in water.

COD 180

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION
Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL
Not regulated.

15 REGULATORY INFORMATION

LABELLING

CONTAINS OXALIC ACID

RISK PHRASES
R21/22 Harmful in contact with skin and if swallowed.

SAFETY PHRASES
S24/25 Avoid contact with skin and eyes.

STATUTORY INSTRUMENTS
Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE
Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES
CHIP for everyone HSG(108). Workplace Exposure Limits EH40.
<table>
<thead>
<tr>
<th><strong>16 OTHER INFORMATION</strong></th>
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<tbody>
<tr>
<td><strong>REVISION DATE</strong></td>
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<td><strong>REV. NO./REPL. SDS GENERATED</strong></td>
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<tr>
<td><strong>SDS NO.</strong></td>
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<tr>
<td><strong>SAFETY DATA SHEET STATUS</strong></td>
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<tr>
<td><strong>DATE</strong></td>
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<tr>
<td><strong>SIGNATURE</strong></td>
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<tr>
<td><strong>RISK PHRASES IN FULL</strong></td>
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