SAFETY DATA SHEET
OXALIC ACID

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name OXALIC ACID
CAS-No. 144-62-7
EU Index No. 607-006-00-8
EC No. 205-634-3

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Laboratory agent Manufacture of substances.

1.3. Details of the supplier of the safety data sheet
Supplier Industrial Chemicals Limited
Hogg Lane
Grays
Essex
RM17 5DU
United Kingdom
T:+44 (0)1375 389000
F:+44 (0)1375 389110
sds@icgl.co.uk

1.4. Emergency telephone number
+44 (0)1865 407333 (24-hour)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards Not classified.
Human health Acute Tox. 4 - H302;Acute Tox. 4 - H312;Eye Dam. 1 - H318
Environment Not classified.

Classification (67/548/EEC) Xn;R21/22
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements
EC No. 205-634-3
Label In Accordance With (EC) No. 1272/2008

Signal Word Danger

Hazard Statements
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H318 Causes serious eye damage.

Supplementary Precautionary Statements
P270 Do not eat, drink or smoke when using this product.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name: OXALIC ACID  
CAS-No.: 144-62-7  
EU Index No.: 607-006-00-8  
EC No.: 205-634-3

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Get medical attention immediately! Show this safety data sheet to the doctor in attendance

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

Ingestion
Immediately rinse mouth and provide fresh air. Never give liquid to an unconscious person.

Skin contact
Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Obtain medical attention and bring these instructions.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Water spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Oxides of Carbon.

5.3. Advice for firefighters

Protective equipment for fire-fighters
Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
OXALIC ACID

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe vapour. Provide adequate ventilation. Avoid inhalation of dust.

6.2. Environmental precautions

Avoid discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

6.4. Reference to other sections

Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid spreading dust.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Moisture sensitive.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>OXALIC ACID</td>
<td>WEL</td>
<td>1 mg/m3</td>
<td>2 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

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

Hand protection

Protective gloves should be used if there is a risk of direct contact or splash. Nitrile gloves are recommended.

Eye protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Crystals</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Initial boiling point and boiling range (°C)</td>
<td>157°C 1013 hPa</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>189.5°C</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.9 g/cm³ 25°C</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt;0.001 kPa 20ºC</td>
</tr>
<tr>
<td>pH-Value, Diluted Solution</td>
<td>1.3 1</td>
</tr>
<tr>
<td>Solubility Value (G/100G H2O@20ºC)</td>
<td>11</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability
 Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
 Water, moisture.

10.5. Incompatible materials

   Materials To Avoid

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

   Toxic Dose 1 - LD 50
   1,080 mg/kg (oral rat)

   Skin Corrosion/Irritation:
   Non Corrosive to skin.

   Serious eye damage/irritation:
   Corrosive to eyes (study on rabbits)

   Reproductive Toxicity:
   May damage the unborn child.

   Specific target organ toxicity - repeated exposure:
   STOT - Repeated exposure
   LOAEC 150 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

   Acute Toxicity - Fish
   LC50 48 hours 160 mg/l Leuciscus idus (Golden orfe)
   EC 50, 48 Hrs, Daphnia, mg/l 162.2

12.2. Persistence and degradability

   Degradability
   The product is biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

   Mobility:
   No data available.

12.5. Results of PBT and vPvB assessment

   Not available
**OXALIC ACID**

**12.6. Other adverse effects**
Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in an incinerator equipped with an afterburner or scrubber.

**SECTION 14: TRANSPORT INFORMATION**

**General**
Not regulated.

**14.1. UN number**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

**14.4. Packing group**

**14.5. Environmental hazards**
Environmentally Hazardous Substance/Marine Pollutant
No.

**14.6. Special precautions for user**

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical Safety Assessment**

**SECTION 16: OTHER INFORMATION**

**Revision Comments**
This is first issue.

**Issued By** M.Bartlett
**Date** 02/07/2013

**Risk Phrases In Full**
R21/22 Harmful in contact with skin and if swallowed.

**Hazard Statements In Full**
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H318 Causes serious eye damage.

**Disclaimer**
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