
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: Oxalic acid 0.2N Aqueous solution, Oxalic acid 1% Aqueous solution, Oxalic acid 5%

Product number: NSI-008051, REA102, REA103

Brand: Solmedia Ltd

1.2 Relevant identified uses of the substance or mixture and uses advised against

Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Solmedia Ltd.

Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK

Telephone: 0844 80 80 900

Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone: +44 (0)844 80 80 900

SECTION 2: Hazard's identification**2.1 Classification of the substance or mixture**

Classification under CLP: Regulation (EC) No. 1272/2008 [CLP]

| Hazard Class | Hazard Category | Hazard Statement |
|---------------------------|-----------------|------------------|
| Eye damage/Eye irritation | Category 1 | H318 |
| Skin corrosion/irritation | Category 1B | H314 |

2.2 Label elements

Hazard statements: H314 +H318: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

**Precautionary statements:****Prevention:****P260:** Do not breathe dust/fume/gas/mist/vapours/spray.**P264:** Wash hands and face thoroughly after handling.**P280:** Wear protective gloves/protective clothing/eye protection/face protection.**Response (if exposure occurs):****P301+P330+P331:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.**P302+P352:** IF ON SKIN: Wash with plenty of soap and water.**P361:** Take off immediately all contaminated clothing.**P353:** Rinse skin with water/shower.**P362:** Take off contaminated clothing and wash it before reuse.**P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P311:** Call a POISON CENTER or doctor/physician immediately.**P321:** Specific treatment (see label).**P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**2.3 Other hazards**

Other hazards: In use, may form flammable / explosive vapour-air mixture.
PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Hazardous ingredients Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | | | Classification (Regulation (EC) No 1272/2008 [CLP]) | |
|----------------------|-----------------------|------------|--|----------------------|
| Hazardous Components | | Amount [%] | Hazard class/ Hazard category | Hazard Statements |
| Name: | Oxalic acid | ~1-5% | ACUTE TOX. CAT. 4; EYE DAM. CAT. 1. | H302 H312 H318 |
| CAS NO. | 144-62-7 | | | |
| EC-NO. | 205-634-3 | | | |
| EU REACH NO. | 01-2119534576-33-XXXX | | | |
| Name: | Deionised water | ~95% | N/A | N/A |
| CAS NO. | 7732-18-5 | | | |
| EC NO. | 231-791-2 | | | |

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|-----------------------------|---|
| General information: | IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended. |
| Skin contact: | After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician. |
| Eye contact: | In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Ingestion: | If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink. |
| Inhalation: | Do not induce vomiting. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Get medical attention. |

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Water spray, ABC-powder, Carbon dioxide (CO₂), Nitrogen

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.
Special protective equipment for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional Information:

Do not allow run-off from fire-fighting to enter drains or water courses.
Do not inhale explosion and combustion gases.
Use caution when applying carbon dioxide in confined spaces.
Carbon dioxide can displace oxygen.
Use water spray jet to protect personnel and to cool endangered containers.
In case of fire: Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate the area of all unnecessary personnel. Wear suitable PPE

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.
Isolate from ignition sources. Absorb with non-combustible spillage material.

6.4 Reference to other sections

Clear spills immediately.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible:
Inhalation, Skin contact, Eye contact

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: 15 – 25 degrees C
Storage class: no data available
Keep container tightly closed and in a well-ventilated place.
Keep/Store only in original container.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

UK - EH40/2005 Workplace exposure limits (WEL):

No data available

DNEL: Derived no effect level/DNEL – Derived minimum effect level

No data available

PNEC – Predicted no effect concentration

No data available

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique.

(Without touching glove's outer surface) to avoid skin contact with this product. Dispose of Contaminated gloves after use in accordance with applicable laws and good laboratory practices.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

No data available for breakthrough times.

Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection required if workplace exposure limits cannot be controlled/if ventilation or exhaust is not adequate. For nuisance exposures use type OV/AG (US) or type ABEK

(EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection:

Goggles recommended during refilling: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Additional Information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Control of environmental exposure

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|---|-------------------------------------|
| State: | Liquid |
| Colour: | Colourless |
| Odour: | No data available |
| Odour threshold: | No data available |
| pH: | No data available |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Flash point: | No data available |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | Highly flammable liquid and vapour. |
| Flammability or explosive limits | |
| Lower explosion limit: | No data available |
| Upper explosion limit: | No data available |
| Vapour pressure: | No data available |
| Vapour density: | No data available |
| Relative density: | No data available |

Solubility(ies)**Water solubility:**

No data available

Soluble (g/L) in Ethanol:

No data available

Partition coefficient:**n-octanol/water:**

No data available

Auto-ignition temperature:

No data available

Decomposition temperature:

No data available

Viscosity**Kinematic viscosity:**

No data available

Dynamic viscosity:

No data available

Explosive properties: Not applicable**Oxidising properties:** Not applicable**9.2 Other safety information****Bulk density:** No data available**Refraction index:** No data available**Dissociation constant:** No data available**Surface tension:** No data available**Henry's Law Constant:** No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

May build pressure within sealed containers if mixed with a substance that causes a reaction.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidising agents. Strong acids, strong bases, zirconium, metallic salts.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No data available.

Symptoms / routes of exposure

| | |
|----------------------|--|
| Skin contact: | Causes skin irritation |
| Eye contact: | causes serious eye irritation |
| Ingestion: | May be harmful if swallowed Causes burns |
| Inhalation: | May be harmful if inhaled. The substance is destructive to the respiratory tract and mucous membranes. |

SECTION 12: Ecological information

12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations:

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.
Waste code product: no data available

Handle contaminated packages in the same way as the substance itself.

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1 UN number

No data available

14.2 UN proper shipping name

No data available

14.3 Transport hazard class(es)

No data available

14.4 Packaging group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.