

**SAFETY DATA SHEET**  
Oxalic Acid

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product identifier**

**Product Name:** OXALIC ACID DIHYDRATE  
**EC Number:** 205-634-3  
**CAS No.:** 6153-56-6  
**Synonyms:** ETHANEDIOIC ACID, OXALIC ACID YP1, OXALIC ACID YP4, OXALIC ACID OXM, OXALIC ACID FNG, OXALIC ACID CRY  
**Pure substance/mixture:** Substance  
**Molecular weight:** 126.07

**Relevant identified uses of the substance or mixture and uses advised against:**

**Recommended use:** Organic raw material for product formulation  
 Industrial use  
 Professional use  
 Adhesives and/or sealants  
 Leather treatment  
 Manufacture of non-metallic mineral products  
 Manufacture of metals and alloys  
 Metal surface treatment  
 Plastics  
 Pharmaceuticals - manufacture of fine chemicals  
 For further information, see attached Exposure Scenario

**Details of the supplier of the safety data sheet:**

**Company name:** Nexchem Ltd  
 Unit 3 Barshaw Park  
 Leycroft Road  
 Leicester  
 LE4 1ET  
 Tel: 0116 2311130  
 24/7 Emergency Tel: 0800 246 1274  
 Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture:**

Acute toxicity – Oral	Category 4 - (H302)
Acute toxicity – Dermal	Category 4 - (H312)
Serious eye damage/eye irritation	Category 1 - (H318)

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### Label elements:



**Signal word:** Danger

**Hazard statements:**  
H302 - Harmful if swallowed.  
H312 - Harmful in contact with skin.  
H318 - Causes serious eye damage.

**Precautionary statements:**  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing and eye/face protection.  
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 - Dispose of contents as hazardous waste in accordance with local/ regional/ national/ international regulations.

**Other hazards:** No information available.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances:

Chemical name	Weight-%	EC No. (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
OXALIC ACID DIHYDRATE 6153-56-6	100%	205-634-3	-	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Dam. 1 (H318)	-	-	-

**Full text of H- and EUH-phrases:** See section 16

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59).

### 4. FIRST AID MEASURES

#### Description of first aid measures:

**General advice:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Inhalation:** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

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- Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Chemical burns must be treated promptly by a physician. If blisters form on the skin, these should never be burst as this will increase the risk of infection. Wash contaminated clothing before reuse.
- Ingestion:** Get immediate medical attention. Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit does not enter the lungs. Never give anything by mouth to an unconscious person.
- Self-protection of the first aider:** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

### Most important symptoms and effects, both acute and delayed:

- Symptoms:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Causes serious eye damage.

### Indication of any immediate medical attention and special treatment needed:

- Note to doctors:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media:

- Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.
- Large Fire:** CAUTION: Use of water spray when fighting fire may be inefficient.
- Unsuitable extinguishing media:** Do not scatter spilled material with high pressure water streams.

### Special hazards arising from the substance or mixture:

#### Specific hazards arising from the chemical:

- Closed containers can burst violently when heated, due to excess pressure build-up.
- Exposure to combustion products may be a hazard to health. Do not breathe fumes.

**Hazardous combustion products:** Thermal decomposition may release: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Formic acid.

### Advice for firefighters:

#### Special protective equipment and precautions for fire-fighters:

- Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
- Cool containers with flooding quantities of water until well after fire is out.
- Collect contaminated fire extinguishing water separately.
- Do not allow it to enter drains or surface water.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

- Personal precautions:** Avoid contact with eyes, skin and clothing. Use personal protection recommended in Section 8. Avoid generation of dust. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak.
- Other information:** Refer to protective measures listed in Sections 7 and 8.
- For emergency responders:** Use personal protection recommended in Section 8.

[cont...]

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**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

### Methods and material for containment and cleaning up:

**Methods for containment:** Prevent dust generation by adding water to spilled product, then sweep up into a closed container for disposal. Ventilate the area.

**Methods for cleaning up:** Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

**Prevention of secondary hazards:** Observe good chemical hygiene practices.

**Reference to other sections:** See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

**Advice on safe handling:** Do not eat, drink or smoke when using this product.

Avoid contact with skin, eyes or clothing.

Use only in a well-ventilated area.

Absorb spillage to prevent material damage.

Avoid release to the environment.

**General hygiene considerations:** Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and immediately after handling the product.

Remove contaminated clothing and protective equipment before entering eating areas.

Take off contaminated clothing and wash it before reuse.

### Conditions for safe storage, including any incompatibilities:

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place.

Keep/store only in original container.

Keep at temperatures between 5 and 30°C.

Avoid sources of heat, radiation and static electricity.

Keep away from food, drink and animal feeding stuffs.

Protect from direct sunlight.

Store away from incompatible materials.

See section 10 for more information.

**Specific end use(s):** See section 1 for more information.

**Risk Management Methods (RMM):** The information required is contained in this Safety Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters:

**Exposure Limits:** Dust TWA: 10 mg/m<sup>3</sup> (Inhalable particles); TWA: 3 mg/m<sup>3</sup> (Respirable particles)  
(Manuf. Data/ACGIH).

<b>Chemical name</b>	<b>United Kingdom</b>
OXALIC ACID DIHYDRATE 6153-56-6	TWA: 1mg/m <sup>3</sup>

**Biological occupational exposure limits:** This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

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### Derived No Effect Level (DNEL) – Workers:

Chemical name	Oral	Dermal	Inhalation
OXALIC ACID DIHYDRATE 6153-56-6		0.882 mg/kg bw/day [4] [6]	3.11 mg/m <sup>3</sup> [4] [6]

[4] Systemic health effects.

[6] Long term.

### Derived No Effect Level (DNEL) - General Public:

Chemical name	Oral	Dermal	Inhalation
OXALIC ACID DIHYDRATE 6153-56-6	0.315 mg/kg bw/day [4] [6]	0.315 mg/kg bw/day [4] [6]	0.466 mg/m <sup>3</sup> [4] [6]

[4] Systemic health effects.

[6] Long term.

### Predicted No Effect Concentration (PNEC):

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
OXALIC ACID DIHYDRATE 6153-56-6	160 µg/l		16 µg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
OXALIC ACID DIHYDRATE 6153-56-6			155 g/l		

### Exposure controls:

#### Engineering controls:

Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Use engineering controls to keep exposures below the OEL or DNEL. Respiratory protection must be used if air contamination exceeds acceptable level.

#### Personal protective equipment:

##### Eye/face protection:

Face protection shield and/or safety goggles. Use eye protection according to EN 166.

##### Hand protection:

Chemical resistant gloves required for prolonged or repeated contact. Gloves must conform to standard EN 374. Gloves should be chosen in consultation with the supplier/manufacturer and taking account of a full assessment of the working conditions.

##### Skin and body protection:

Chemical-resistant protective suit. Chemical resistant footwear.

##### Respiratory protection:

When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

##### Recommended filter type:

Particulates type (P).

##### General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Take off contaminated clothing and wash it before reuse.

**Environmental exposure controls:** Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Physical state:</b>	Solid
<b>Appearance:</b>	Powdery
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No information available

Property	Values	Remarks • Method
<b>Melting point / freezing point:</b>	>160°C	Product undergoes sublimation
<b>Initial boiling point and boiling range:</b>	No information available	
<b>Flammability:</b>	No information available	
<b>Flammability Limit in Air:</b>	No information available	
<b>Upper flammability or explosive limits:</b>		
<b>Lower flammability or explosive limits:</b>		
<b>Flash point:</b>	Not applicable	
<b>Autoignition temperature:</b>	>400°C	No information available
<b>Decomposition temperature:</b>	>110°C	No information available
<b>pH:</b>	No information available	
<b>pH (as aqueous solution):</b>	0.7	Solution (5%)
<b>Kinematic viscosity:</b>	No information available	
<b>Dynamic viscosity:</b>	No information available	
<b>Water solubility:</b>	108 g/l @ 25°C	Soluble in water
<b>Solubility(ies):</b>	No information available	
<b>Partition coefficient:</b>	-1.7	@ 23°C
<b>Vapour pressure:</b>	0.0312 Pa	@ 25°C
<b>Relative density:</b>	0.813	@ 20°C
<b>Bulk density:</b>	813 kg/m <sup>3</sup>	@ 20°C
<b>Liquid Density:</b>	No information available	No information available
<b>Relative vapour density:</b>	No information available	
<b>Particle characteristics:</b>	No information available	
<b>Particle Size:</b>	No information available	
<b>Particle Size Distribution:</b>	No information available	
<b>Explosive properties:</b>	No information available	
<b>Oxidising properties:</b>	No information available	
<b>Other information:</b>		
<b>Molecular weight:</b>	126.07	

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### 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under normal conditions. Saturated aqueous solutions (15%) behave as medium-strong acids.

**Chemical stability:**

**Stability:** Stable under normal conditions.

**Explosion data:**

**Sensitivity to mechanical impact:** None.

**Sensitivity to static discharge:** None.

**Possibility of hazardous reactions:** May form explosive mixtures with oxidising substances.

It reacts violently by developing heat with: Alkali metals. Silver. Ammonia. Mercury. Furfuryl alcohol. Chlorates. Hypochlorites.

**Conditions to avoid:** Avoid dust formation.

**Incompatible materials:** Strong oxidising agents. Strong bases. Metals. Alkali metals. Furfuryl acid. Chlorine compounds.

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Formic acid.

### 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects:**

**Information on likely routes of exposure:**

**Product Information:**

**Inhalation:** Not acutely toxic by inhalation.

**Eye contact:** Causes serious eye damage.

**Skin contact:** Harmful in contact with skin.

**Ingestion:** Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Symptoms:** Ingestion of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

Causes serious eye damage.

**Acute toxicity:**

**Numerical measures of toxicity:** No information available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
OXALIC ACID DIHYDRATE	375 mg/kg (Rat)	20000 mg/kg bw (Rabbit)	-

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### Delayed and immediate effects as well as chronic effects from short and long-term exposure:

**Skin corrosion/irritation:** Based on available data the classification criteria are not met.

**Serious eye damage/eye irritation:** Causes serious eye damage.

**Respiratory or skin sensitisation:** Based on available data the classification criteria are not met.

**Germ cell mutagenicity:** Based on available data the classification criteria are not met.

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity:** Based on available data the classification criteria are not met.

**STOT - single exposure:** Based on available data the classification criteria are not met.

**STOT - repeated exposure:** Based on available data the classification criteria are not met.

**Aspiration hazard:** Based on available data the classification criteria are not met.

**Other adverse effects:** No information available.

## 12. ECOLOGICAL INFORMATION

### Toxicity:

**Ecotoxicity:** Based on available data, the classification criteria are not met.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
OXALIC ACID DIHYDRATE	EC50: 19.14 mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )	LC50: 160 mg/L (48h, <i>Carassius auratus</i> )	EC50: 80 mg/l (8d, <i>Microcystis aeruginosa</i> )	EC50: 162.2 mg/L (48h, <i>Daphnia magna</i> )

**Persistence and degradability:** Readily biodegradable.

### OXALIC ACID DIHYDRATE (6153-56-6)

Method	Exposure time	Value	Results
OECD 301	5 days	89% biodegradation	Readily biodegradable

### Bioaccumulative potential:

**Bioaccumulation:** Not likely to bioaccumulate.

Chemical name	Partition coefficient
OXALIC ACID DIHYDRATE	-1.7

**Mobility in soil:** No information available.

**Mobility:** Soluble in water.

### Results of PBT and vPvB assessment:

**PBT and vPvB assessment:** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
OXALIC ACID DIHYDRATE	The substance is not PBT/vPvB

**Other adverse effects:** No information available.

[cont...]

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### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Waste from residues/unused products:** Waste is classified as hazardous waste.

Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**Contaminated packaging:**

Do not reuse empty containers. Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

**IATA:**

**UN number or ID number:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** Not applicable

**Special precautions for user:**

**Special Provisions:** None

**IMDG:**

**UN number or ID number:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** Not applicable

**Special precautions for user:**

**Special Provisions:** None

**Maritime transport in bulk according to IMO instruments:** No information available

**RID:**

**UN number or ID number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** Not applicable

**Special precautions for user:**

**Special Provisions:** None

**ADR:**

**UN number or ID number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** Not applicable

**Special precautions for user:**

**Special Provisions:** None

[cont...]

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### 15. REGULATORY INFORMATION

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

##### National regulations:

##### Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

##### International Inventories:

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECI</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status

##### Legend:

<b>TSCA</b>	United States Toxic Substances Control Act Section 8(b) Inventory
<b>DSL/NDSL</b>	Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b>	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
<b>ENCS</b>	Japan Existing and New Chemical Substances
<b>IECSC</b>	China Inventory of Existing Chemical Substances
<b>KECL</b>	Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	Philippines Inventory of Chemicals and Chemical Substances
<b>AIIC</b>	Australian Inventory of Industrial Chemicals
<b>NZIoC</b>	New Zealand Inventory of Chemicals

**Chemical safety assessment:** Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

[cont...]

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## 16. OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet:

#### Legend:

<b>SVHC:</b>	Substances of Very High Concern for Authorisation:
<b>PBT:</b>	Persistent, Bioaccumulative, and Toxic (PBT) Substances.
<b>vPvB:</b>	Very Persistent and very Bioaccumulative (vPvB) Substances.

### Legend Section 8: Exposure controls/personal protection:

<b>TWA</b>	TWA (time-weighted average)
<b>STEL</b>	STEL (Short Term Exposure Limit)
<b>Ceiling</b>	Maximum limit value
<b>*</b>	Skin designation
<b>+</b>	Sensitisers

### Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.