

SAFETY DATA SHEET**BM1301 – OXALIC ACID (3%)**

According to Regulation (EC) No 1907/2006 as amended

CREATION DATE: 01/03/2021**REVISION DATE: 26/03/2025****REVISION NUMBER: 5**

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Oxalic Acid (3%)
Product code BM1301

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

Identified uses Laboratory chemical. For *in vitro* diagnostic use. For professional use only.
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company E&O Laboratories Limited
Address Burnhouse
Bonnybridge
Scotland
FK4 2HH
United Kingdom
Website www.eolabs.com
Telephone + 44 (0) 1324 840404
Fax + 44 (0) 1324 841314
Email enquiries@eolabs.com

1.4. Emergency telephone number

Telephone (24hr) 999 (Emergency - UK), 112 (Emergency - EU member states)
111 (NHS24 Scotland and NHS Direct England & Wales)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Main hazards Eye Dam.1:H318

2.2 Label elements

Hazard pictograms

Signal word

Hazard statement

Precautionary statement prevention

Precautionary statement response

Danger

Eye Dam.1:H318

P280

P305+P351+P338

Causes serious eye damage.

Wear eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

 Immediately call a POISON CENTRE /
 doctor / physician.

2.3 Other hazards

This mixture contains no ingredients considered to be Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (VPvB) at levels 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	CAS No. EC No.	Concentration (%w/w)	Classification
Oxalic acid dihydrate	6153-56-6 205-634-3	3%	Acute Tox.4:H302 Acute Tox.4:H312 Eye Dam.1:H318

Acute Tox.4:H302

Harmful if swallowed.

Acute Tox.4:H312

Harmful in contact with skin.

Eye Dam.1:H318

Causes serious eye damage.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Seek medical advice.

Inhalation

If breathed in, move person into fresh air.

Eye contact

Rinse immediately with plenty of water. Remove contact lenses if present and safe to do so.

Skin contact

Wash the contaminated area with water.

Ingestion

Rinse mouth with water.

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

Inhalation

May be an irritant to respiratory system.

Eye contact

Causes serious eye damage.

Skin contact

May be an irritant to skin.

Ingestion

Ingestion may cause nausea, vomiting and/or diarrhoea.

Additional

See sections 2 and 11.

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

Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions. Carbon dioxide, dry chemical, water spray or foam.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may liberate irritating gases and vapours.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	Wear disposable gloves and protective clothing.
6.2 Environmental precautions	Avoid release to the environment.
6.3. Methods and materials for containment and cleaning up	Pick up and transfer into suitable containers for recovery/disposal. Sweep up. Flush area with plenty water.
6.4 Reference to other sections	Not available.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling	Avoid contact with eyes and skin.
7.2. Conditions for safe storage, including any incompatibilities	Store as directed.
7.3. Specific end use(s)	For laboratory use only.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Component	CAS No.	Value form of exposure	Control parameters	Basis
Oxalic acid dihydrate	6153-56-6	TWA	1mg/m ³	UK. EH40 WEL
		STEL	2mg/m ³	UK. EH40 WEL
		TWA	1mg/m ³	EU. IOELV
		DNEL	0.35mg/cm ²	Chronic oral (systemic) – consumers
			0.69mg/cm ²	Acute dermal (local) – workers
				Chronic dermal (systemic) – workers
			0.35mg/cm ²	Acute dermal (local) – consumers
				Chronic dermal (systemic) – consumers
			4.03mg/m ³	Chronic inhalation (systemic) – workers
		PNEC	0.1622mg/l	Freshwater
			0.016mh/l	Seawater
			1.622mg/l	Intermittent release
			1550mg/l	Sewage-treatment plant
		Remarks	N/A	

8.2. Exposure controls

Appropriate engineering controls	Ensure there is adequate ventilation when used.
Individual protection measures	Wear disposable gloves, eye/face protection and protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	No data available

Odour threshold	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flammability	No data available
Upper explosion/flammability limit	No data available
Lower explosion/flammability limit	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	Not applicable
pH	1.0 – 2.0
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water	Not applicable
Vapour pressure	No data available
Relative density	No data available
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2. Other information

Explosive properties	Not applicable
Oxidising properties	Not applicable
Corrosive properties	No data available
Evaporation rate	No data available
Conductivity	No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity	None known based on available data.
10.2. Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Reactive with: chlorates, sodium hypochlorite, strong oxidising agents, silver, salts of oxyhalogenic acids, bases, ammonia and mercury.
10.4. Conditions to avoid	Avoid exposure to direct sunlight, excessive heat and incompatible products as these may affect the stability of the media.
10.5 Incompatible materials	None known based on available data.
10.6 Hazardous decomposition products	None known based on available data.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Based on available data, the classification criteria are not met.
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Component	CAS No.	Route	Species	LD50 results
Oxalic acid dihydrate	6153-56-6	Oral	Rat	375mg/kg
		Inhalation	Not known	1,100.1mg/kg (ATE)

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Category 1. 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
STOT-single exposure
Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties
Other information

No known/suspected endocrine disruptors.
No data available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Component	CAS No.	Species	Measurement	Results
Oxalic acid dihydrate	6153-56-6	<i>Leuciscus idus</i> (Golden orfe)	LC50	160mg/l 48h
		<i>Daphnia magna</i> (Water flea)	EC50	162.2mg/l 48h

12.2 Persistence and degradability

Component	CAS No.	Test and duration	Results and degradation
Oxalic acid dihydrate	6153-56-6	Aerobic – 20d	89% - readily biodegradable

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No known/suspected endocrine disruptors.

12.7 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with local and national authority requirements.

14. TRANSPORT INFORMATION

ARD/RID/IMO/IMDG/IATA/ICAO

This product is not classified as dangerous for carriage.

14.1 UN number or ID number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

15. REGULATORY INFORMATION

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annexes II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) 2019/521 of 27 March 2019 amending Annexes I-VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

15.2 Chemical safety assessment

None carried out.

16. OTHER INFORMATION

SDS No.

BM1301

Revision date

26/03/2025

Revision number

5

Revision changes

Updated for compliance with EU 2019/521.

Previous revisions

4: Update for EC 1907/2006 and EU 2020/878 compliance (21/08/2023)

3: Using CLP formulation to calculate toxicity of mixtures, Oxalic Acid at 3% is not hazardous so Acute Tox.4: H302 and Acute Tox.4: H312 removed. (21/01/2019)

2: Updated to Regulation (EC) No 1272/2008 (07/03/2017)

1: New document (21/05/2014)

Legend

ARD

European Agreement Concerning the International Carriage of Dangerous Goods by Road

CAS

Chemical Abstracts Service

EC

European Community

EC50

Half maximal Effective Concentration

IATA

International Air Transport Association

ICAO

International Civil Aviation Organization

IMDG

International Maritime Dangerous Goods Code

IMO

International Maritime Organization

LC50

Lethal Concentration to 50% of a test population

LD50

Lethal Dose to 50% of a test population

RID

Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL

Short Term Exposure Limit

TWA

Time Weighted Average

UN

United Nations

WEL

Workplace Exposure Limits

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