

SAFETY DATA SHEET

Oxalic acid dihydrate

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

1.1. Product identifier

Product name	Oxalic acid dihydrate
Product number	80163036
CAS number	6153-56-6
EC number	612-167-2
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	For research purposes only.
Uses advised against	Not suitable for human consumption or veterinary purposes.
1.3. Details of the supplier of	the safety data sheet
Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom

+44 (0) 3302000333 info@molekula.com

1.4. Emergency telephone number

+44 (0) 7769276927

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification (SI 2019 No. 72	Classification (SI 2019 No. 720)	
Physical hazards	Not Classified	
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Eye Dam. 1 - H318 STOT RE 2 - H373	
Environmental hazards	Not Classified	
2.2. Label elements		
EC number	612-167-2	
Hazard pictograms		

Signal word

Danger

Hazard statements	H302+H312 Harmful if swallowed or in contact with skin. H318 Causes serious eye damage. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	 P260 Do not breathe dust. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 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 CENTER/ doctor. P314 Get medical advice/ attention if you feel unwell. P330 Rinse mouth. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Product name	Oxalic acid dihydrate
CAS number	6153-56-6
EC number	612-167-2
Chemical formula	C2H2O4 · 2H2O
SECTION 4: First aid measur	res
4.1. Description of first aid me	easures
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.
Skin contact	It is important to remove the substance from the skin immediately. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention.
Eye contact	Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptoms and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.

Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.
Skin contact	May cause discomfort.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
4.3. Indication of any immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting measures	

5.1. Extinguishing media

guish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- guishing media suitable for the surrounding fire. In use water jet as an extinguisher, as this will spread the fire. substance or mixture
substance or mixture
product is toxic.
nal decomposition or combustion products may include the following substances: gases or vapours. on dioxide (CO2). on monoxide (CO).
breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with spray and remove them from the fire area if it can be done without risk. Cool containers sed to flames with water until well after the fire is out. Control run-off water by containing eeping it out of sewers and watercourses. If risk of water pollution occurs, notify opriate authorities.
chemical protective suit. Wear positive-pressure self-contained breathing apparatus A) and appropriate protective clothing. Firefighter's clothing will provide a basic level of ction for chemical incidents.

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be
	taken without appropriate training or involving any personal risk. Do not touch or walk into
	spilled material. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	lling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
	Hygroscopic.
Storage class	Chemical storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure controls/Personal protection	
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8.1. Control parameters 8.2. Exposure controls Protective equipment Image: Control parameters Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-
8.1. Control parameters 8.2. Exposure controls Protective equipment Image: Control parameters Appropriate engineering controls Eye/face protection	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are

Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Appearance	Crystalline powder.
Colour	White.
Odour	Not known.
Odour threshold	No information available.
рН	pH (diluted solution): 1.5 10 g/l
Melting point	98-102°C/208.4-215.6°F
Initial boiling point and range	149-160°C/300.2-320°F @ 1013 hPa
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	0.000312 hPa @ 25°C/77°F
Vapour density	No information available.
Relative density	1.65 g/cm3
Solubility(ies)	Soluble in water.
Partition coefficient	log Pow: -1.7
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
9.2. Other information	
Molecular weight	126.07
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous	Risk of explosion with:
reactions	chlorates
	sodium hypochlorite
	Strong oxidising agents.
	Silver.
	salts of oxyhalogenic acids
	Exothermic reaction with:
	Ammonia.
	Alkalis.
	Mercury/Mercury oxides
10.4. Conditions to avoid	
Conditions to avoid	Moisture sensitive. Store under inert gas.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
	Strong alkalis.
	Acid chlorides
	Metals
10.6. Hazardous decomposi	tion products
Hazardous decomposition	Does not decompose when used and stored as recommended.
products	Thermal decomposition or combustion products may include the following substances:
	Toxic gases or vapours.
	Carbon dioxide (CO2).
	Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity - oral		
Summary	Harmful if swallowed.	
Acute toxicity oral (LD₅₀ mg/kg)	375.0	
Species	Rat	
ATE oral (mg/kg)	375.0	
Acute toxicity - dermal		
Summary	Harmful in contact with skin.	
ATE dermal (mg/kg)	1,100.0	
Acute toxicity - inhalation Summary	Based on available data the classification criteria are not met.	
Skin corrosion/irritation Summary	Based on available data the classification criteria are not met.	
Serious eye damage/irritation Summary	Causes serious eye damage.	
Respiratory sensitisation Summary	Based on available data the classification criteria are not met.	

Skin sensitisation		
Summary	Based on available data the classification criteria are not met.	
Germ cell mutagenicity Summary	Based on available data the classification criteria are not met.	
Carcinogenicity		
Summary	Based on available data the classification criteria are not met.	
IARC carcinogenicity	None of the ingredients are listed or exempt.	
Reproductive toxicity Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -	single exposure	
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity - r		
Summary	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard		
Summary	Not relevant. Solid.	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.	
Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.	
Skin contact	May cause discomfort.	
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target organs	No specific target organs known.	
SECTION 12: Ecological inform	nation	
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.	
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary	Based on available data the classification criteria are not met.	
Chronic aquatic toxicity Summary	Based on available data the classification criteria are not met.	
12.2. Persistence and degradability		
Persistence and degradability	The degradability of the product is not known.	
12.3. Bioaccumulative potentia	1	
Bioaccumulative potential	No data available on bioaccumulation.	
Partition coefficient	log Pow: -1.7	
12.4. Mobility in soil		

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General The product is not covered by in (IMDG, IATA, ADR/RID). 14.1. UN number (IMDG, IATA, ADR/RID). Not applicable. 14.2. UN proper shipping name Not applicable. 14.3. Transport hazard class(es) No transport hazard class(es) No transport warning sign required. 14.4. Packing group Not applicable. 14.5. Environmental hazards Environmental hazards Environmentally hazardous substance/marine pollutant No. 14.6. Special precautions for user Not applicable. 14.7. Transport in bulk according to Annex II of MARPOL and the transport in bulk according to Not applicable. Annex II of MARPOL 73/78	ose of surplus products and those that cannot be recycled via a ctor. Waste, residues, empty containers, discarded work ning materials should be collected in designated containers, ineration or landfill should only be considered when recycling is
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Annex II of MARPOL 73/78	he IBC Code
SECTION 15: Regulatory information	

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	EH40/2005 Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC₅₀: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Eye Dam. = Serious eye damage STOT RE = Specific target organ toxicity-repeated exposure
Classification procedures according to SI 2019 No. 720	Acute Tox. 4 - H312: Acute Tox. 4 - H302: Eye Dam. 1 - H318: STOT RE 2 - H373: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	14/09/2022
Revision	1
SDS number	1503
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H318 Causes serious eye damage. H373 May cause damage to organs through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.