

according to Regulation (EC) No 1907/2006

Oxalic acid solution 0.1 mol/I - 0.2 N solution

Revision date: 09.02.2024

Product code: 14454

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Oxalic acid solution 0.1 mol/l - 0.2 N solution

UFI:

DX09-V18X-E002-YE7Q

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

Use of the substance/mixture

Laboratory chemical

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
	ACD	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:		REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Pictograms:

Regulation (EC) No 1272/2008

Signal word:



Hazard statements

H319

P280

Causes serious eye irritation.

Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.



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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
P337+P313	If eye irritation persists: Get medical advice/attention.					
2.3. Other hazards						

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

CAS No	Chemical name	Chemical name				
	EC No	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)					
6153-56-6	Oxalic acid dihydrate	Oxalic acid dihydrate				
	205-634-3 607-006-00-8					
	Acute Tox. 4, Acute Tox. 4, Eye Dam. 1; H312 H302 H318					

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name			
	Specific Conc. Limits, M-factors and ATE			
6153-56-6	205-634-3 Oxalic acid dihydrate			
	dermal: LD50 = 20000 mg/kg; oral: ATE = 500 mg/kg			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

$\underline{\textbf{4.2. Most important symptoms and effects, both acute and delayed}$

Irritant

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

No data available



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe vapour/aerosol. Read label before use.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or





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drink.

Further information on handling

Take off contaminated clothing. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a dry place.

Further information on storage conditions

Store in a dry place.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
6153-56-6	Oxalic acid dihydrate				
Worker DNEL,	long-term	inhalation	systemic	3,11 mg/m³	
Worker DNEL,	long-term	dermal	systemic	0,882 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	0,466 mg/m³	
Consumer DNEL, long-term		dermal	systemic	0,315 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	0,315 mg/kg bw/day	

PNEC values

CAS No	Substance		
Environmental compartment Value		Value	
6153-56-6 Oxalic acid dihydrate			
Freshwater 0,16 mg/l			
Marine water 0,016 mg/l		0,016 mg/l	
Micro-organisms in sewage treatment plants (STP) 1550 mg/l		1550 mg/l	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the



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supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

-		inear properties	
	Physical state:	Liquid	
	Colour:	colourless	
	Odour:	odourless	
	Odour threshold:	not determined	
	Melting point/freezing point:		not determined
	Boiling point or initial boiling point and		not determined
	boiling range:		
	Flammability:		not determined
	Lower explosion limits:		not determined
	Upper explosion limits:		not determined
	Flash point:		Х
	Auto-ignition temperature:		not determined
	Decomposition temperature:		not determined
	pH-Value:		1,3
	Viscosity / kinematic:		not determined
	Water solubility:		not determined
	Solubility in other solvents		
	not determined		
	Dissolution rate:		not determined
	Partition coefficient n-octanol/water:		not determined
	Dispersion stability:		not determined
	Vapour pressure:		not determined



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Vapour pressure:	not determined	
Density:	1,003 g/cm³	
Relative density:	not determined	
Bulk density:	not determined	
Relative vapour density:	not determined	
Particle characteristics:	not determined	
9.2. Other information		
Information with regard to physical hazard classe	S	
Explosive properties		
not applicable	.	
Sustaining combustion:	No data available	
Self-ignition temperature Solid:		
Gas:	not determined	
Oxidizing properties	not applicable	
Not oxidising.		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	not determined	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
not determined:		
Viscosity / dynamic:	not determined	
Flow time:	not determined	
Further Information		
not determined		

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Further information

No data available

SECTION 11: Toxicological information

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



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Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
6153-56-6	Oxalic acid dihydrate					
	oral	ATE mg/kg	500			
	dermal	LD50 mg/kg	20000	Rabbit	EMEA/MRL/891/03 (2003)	No

Irritation and corrosivity

Causes serious eye irritation.

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

Further information

Irritant

SECTION 12: Ecological information

12.1. Toxicity

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



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
6153-56-6	Oxalic acid dihydrate						
	Acute crustacea toxicity	EC50 mg/l	162,2	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
6153-56-6	Oxalic acid dihydrate	-1,7

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.



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14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Air transport (ICAO-TI/IATA-DGR)						
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	No					
No dangerous good in sense of this tra 14.7. Maritime transport in bulk according t not applicable						
SECTION 15: Regulatory information						
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture						
EU regulatory information						
Restrictions on use (REACH, annex XVII) Entry 3	:					
Enuy 5						
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)					
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)					
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III) Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	nile				

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,9,12.

Abbreviations and acronyms

Acute Tox: Acute toxicity Eye Dam: Eye damage Eye Irrit: Eye irritation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)



according to Regulation (EC) No 1907/2006

Oxalic acid solution 0.1 mol/l - 0.2 N solution	Oxalic aci	solution	0.1	mol/l -	0.2 N	I solutio
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Revision date: 09.02.2024Product code: 14454Page 10 of 10H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)