according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Oxalic acid dihydrate 99+%

article number: OX9342.1

Version: 3.0 en

Replaces version of: 2018-08-02

Version: (2)



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

Product identifier 1.1

Identification of the substance Oxalic aciddihydrate

Article number OX9342.1

Registration number(REACH) 01-2119534576-33-xxxx

Index No 607-006-00-8 EC number 205-634-3 CAS number 6153-56-6

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

Identified uses: laboratory chemical

laboratory and analytical use
This product is not licensed for pest control or

veterinary medicine

Details of the supplier of the safety data sheet 1.3

Laboratoriumdiscounter Zandvoortstraat 75 1976BN Ijmuiden Nederland

Telephone: +31 (0) 255 700 210 e-mail: info@laboratoriumdiscounter.nl Website: www.laboratoriumdiscounter.nl

Competent person responsible for the safety data

sheet: : Department Health, Safety and Environment

e-mail (competent person): info@laboratoriumdiscounter.nl

1.4 **Emergency telephone number**

| Name | Street | Postal code/ city | Telephone | Website |
|--|-----------|------------------------|--------------|---------|
| National Poisons Inform- ation Service City Hospital | Dudley Rd | B187QH Birm- ingham | 844 892 0111 | |

+49/(0)89 19240 **Emergency information service**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

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Classification acc. to GHS

| Section | Hazard class | Hazard class and cat- egory | Hazard state- ment |
|---------|-----------------------------------|--------------------------------|--------------------------|
| 3.10 | acute toxicity (oral) | (Acute Tox. 4) | H302 |
| 3.1D | acute toxicity (dermal) | (Acute Tox. 4) | H312 |
| 3.3 | serious eye damage/eye irritation | (Eye Dam. 1) | H318 |

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS05, GHS07



Hazard statements

H302+H312 Harmful if swallowed or in contact with skin

H318 Causes serious eye damage

Precautionary statements

Precautionary statements - prevention

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/eye protection.

Precautionary statements - response

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.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



H318 Causes serious eye damage.

P280 Wear protective gloves/eye protection.

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.

2.3 Other hazards

There is no additional information.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Oxalic acid dihydrate

Index No 607-006-00-8

Registration number(REACH) 01-2119534576-33-xxxx

EC number 205-634-3 CAS number 6153-56-6

Molecularformula C₂H₂O₄ * 2H₂O

Molar mass 126 g/mol

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following 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.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

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

Irritation, Agitation, Circulatory collapse, Cough, Vomiting, Nausea, Spasms, Breathing difficulties, Risk of serious damage to eyes

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

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



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Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO 2)

Unsuitable extinguishing media

water jet

2. Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂)

3. Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergencyprocedures



For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe dust.

2. Environmental precautions

Keep away from drains, surface and ground water.

3. Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal.

4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

1. Precautions for safe handling

Provision of sufficient ventilation.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

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Consideration of other advice

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Cou ntry | Name of agent | CAS No | Nota- tion | Identifi- er | TWA [mg/ m³] | STEL [mg/ m³] | Ceil- ing-C [ppm] | Ceil- ing-C [mg/ m³] | Source |
|-------------|---------------|----------|---------------|-----------------|--------------------|---------------------|-------------------------|-------------------------------|----------------|
| EU | oxalic acid | 144-62-7 | | IOELV | 1 | | | | 2006/15/ EC |
| GB | oxalic acid | 144-62-7 | | WEL | 1 | 2 | | | EH40/2005 |

Notation

Ceiling-C

Ceiling value is a limit value above which exposure should not occur

STEL

TWA

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

human health values

| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| DNEL | 3,11 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 0,882 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

· environmental values

| Endpoint | Threshold level | Environmental compartment | Exposure time |
|----------|------------------------------------|------------------------------|------------------------------|
| PNEC | 0,16 ^{mg} / _I | freshwater | short-term (single instance) |
| PNEC | 0,016 ^{mg} / _l | marine water | short-term (single instance) |
| PNEC | 1.550 ^{mg} / _l | sewage treatment plant (STP) | short-term (single instance) |

8.2 Exposure controls

Individual protection measures (personal protective equipment)

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Laboratorium discounter

Eye/face protection





Use safety goggle with side protection.

Skin protection





· hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

· type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

· breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state solid (crystalline)

Colour white

Odour odourless

Odour threshold no data available

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Other physical and chemical parameters

pH (value) ~ 1,5 (water: 10 ⁹/_I, 20 °C)

Melting point/freezing point $98 - 101 \,^{\circ}\text{C}$ Initial boiling point and boiling range $149 - 160 \,^{\circ}\text{C}$

Flash point 157 °C

Evaporation rate no data available

Flammability (solid, gas) these information are not available

Explosive limits

lower explosion limit (LEL)
 upper explosion limit (UEL)
 this information is not available this information is not available these
 Explosion limits of dust clouds
 information are not available

Vapour pressure <0,1 hPa at 25 °C Density 1,65 $^{9}/_{\text{cm}^{3}}$ at 20 °C

Vapour density this information is not available

Bulk density $\sim 800 - 900 \,\mathrm{kg/m^3}$

Relative density this information is not available

Solubility(ies)

Water solubility >100 ^g/_l at 25 °C

Partition coefficient

n-octanol/water (log KOW) -1,74 (TOXNET)

Auto-ignition temperature >400 °C

Decomposition temperature >110 °C

Viscosity not relevant (solidmatter)

Explosive properties Shall not be classified as explosive.

Oxidising properties none

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

1. Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

3. Possibility of hazardous reactions

<u>Danger of explosion:</u> Chlorates, Silver, Strong oxidiser, <u>Exothermic reaction with:</u> Alkalis, Ammonia (NH3), Mercury

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4. Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: >110 °C.

5. Incompatible materials

There is no additional information.

6. Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Exposure route | Endpoint | Value | Species | Method | Source |
|----------------|----------|--------------------------------------|---------|-----------|--------|
| oral | LD50 | 7.500 ^{mg} / _{kg} | rat | anhydrous | TOXNET |
| dermal | LD50 | 20.000 ^{mg} / _{kg} | rabbit | anhydrous | ECHA |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

· Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

vomiting, nausea

If in eyes

Causes serious eye damage, risk of blindness

If inhaled

cough, breathing difficulties, Dyspnoea

• If on skin

essentially non-irritating

Other information

Other adverse effects: Circulatory collapse, Spasms, Agitation, Renal impairment

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SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

| Endpoint | Value | Species | Source | Exposure time |
|----------|-------------------------------------|-----------------------|--------|---------------|
| EC50 | 162,2 ^{mg} / _l | aquatic invertebrates | ECHA | 48 h |
| ErC50 | <21,35 ^{mg} / _l | algae | ECHA | 72 h |

12.2 Process of degradability

The substance is readily biodegradable. Theoretical Oxygen Demand: 0,1269 ^{mg}/_{mg} Theoretical Carbon Dioxide: 0,6984 ^{mg}/_{mg} Biochemical Oxygen Demand: 0,16 ^g/_g at 5 d

| Process | Degradation rate | Time |
|------------------|------------------|------|
| biotic/abiotic | 40 % | 5 d |
| oxygen depletion | 89 % | 5 d |

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW) -1,74

BOD5/COD 0,88888889

4. Mobility insoil

Data are not available.

5. Results of PBT and vPvB assessment

Data are not available.

6. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

13.2 Relevant provisions relating to waste

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

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13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

1. UN number (not subject to transport regulations)

2. UN proper shipping name not relevant

3. Transport hazard class(es) not relevant

Class

4. Packing group not relevant not assigned to a packing group

5. Environmental hazards none (non-environmentally hazardous acc. to the danger-

ous goods regulations)

6. Special precautions for user

There is no additional information.

7. Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

8. Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
 Relevant provisions of the European Union (EU)
 - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.
 - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Not listed.

Regulation 850/2004/EC on persistent organic pollutants (POP)

Not listed.

Restrictions according to REACH, Annex XVII

not listed

• Restrictions according to REACH, Title VIII

None.

• List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list not listed

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Seveso Directive

| 2012/18/EU (Seveso III) | | | | | | |
|-------------------------|--|--|--|--|--|--|
| No | Dangerous substance/hazard categories Qualifying quantity (tonnes) for the application of lower and upper-tier requirements Notes | | | | | |
| | not assigned | | | | | |

•Directive 75/324/EEC relating to aerosol dispensers

Filling batch

Deco-Paint Directive (2004/42/EC)

| VOC content | 100 % 1.650 ⁹ / ₁ |
|--|--|
| Directive on industrial emissions (VOCs, 2010/75 | 5/EU) |
| VOC content | 0 % |

| VOC content | 0 % |
|-------------|-------|
| VOC content | 0 g/I |

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

not listed

Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

 $Regulation\,111/2005/EC\,laying\,down\,rules for the\,monitoring\,oftrade\,between\,the\,Community\,and\,third\,countries\,in\,drug\,precursors$

not listed

National inventories

Substance is listed in the following national inventories:

| Country | National inventories | Status |
|---------|----------------------|---------------------|
| AU | AICS | substance is listed |
| CN | IECSC | substance is listed |
| EU | ECSI | substance is listed |
| KR | KECI | substance is listed |
| NZ | NZIoC | substance is listed |
| PH | PICCS | substance is listed |
| TR | CICR | substance is listed |
| TW | TCSI | substance is listed |

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Legend

Australian Inventory of Chemical Substances
Chemical Inventory and Control Regulation
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
Taiwan Chemical Substance Inventory AICS CICR ECSI IECSC

KECI NZIoC

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|--|---|--------------------------|
| 1.1 | Registration number (REACH): This information is not available. | Registration number (REACH): 01-2119534576-33-xxxx | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 8.1 | | Relevant DNELs/DMELs/PNECs and other threshold levels | yes |
| 8.1 | | human health values | yes |
| 8.1 | | •human health values: change in the listing (table) | yes |
| 8.1 | | environmental values | yes |
| 8.1 | | •environmental values: change in the listing (table) | yes |
| 14.4 | Packing group: not relevant | Packing group: not relevant not assigned to a packing group | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations | |
|------------|---|--|
| 2006/15/EC | Commission Directive establishing a second list of indicative occupational exposure limit values in imple - mentation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC | |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) | |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) | |
| BOD | Biochemical Oxygen Demand | |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) | |
| Ceiling-C | ceiling value | |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures | |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction | |
| COD | chemical oxygen demand | |

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| Abbr. | Descriptions of used abbreviations | |
|-----------|--|--|
| DGR | Dangerous Goods Regulations (see IATA/DGR) | |
| DMEL | Derived Minimal Effect Level | |
| DNEL | Derived No-Effect Level | |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval | |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) | |
| EINECS | European Inventory of Existing Commercial Chemical Substances | |
| ELINCS | European List of Notified Chemical Substances | |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control | |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations | |
| IATA | International Air Transport Association | |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) | |
| ICAO | International Civil Aviation Organization | |
| IMDG | International Maritime Dangerous Goods Code | |
| index No | the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 | |
| IOELV | indicative occupational exposure limit value | |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval | |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") | |
| NLP | No-Longer Polymer | |
| PBT | Persistent, Bioaccumulative and Toxic | |
| PNEC | Predicted No-Effect Concentration | |
| ppm | parts per million | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals | |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) | |
| STEL | short-term exposure limit | |
| SVHC | Substance of Very High Concern | |
| TWA | time-weighted average | |
| VOC | Volatile Organic Compounds | |
| vPvB | very Persistent and very Bioaccumulative | |
| WEL | workplace exposure limit | |

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EUGHS)
 Dangerous Goods Regulations (DGR) for the air transport (IATA)

- International Maritime Dangerous Goods Code (IMDG)

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List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|------------------------------|
| H302 | harmful if swallowed |
| H312 | harmful in contact with skin |
| H318 | causes serious eye damage |

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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