

Oxalic acid concentrate**38250-1EA**

Version 1.1

Revision Date 06/11/2020

Print Date 05/15/2023

SECTION 1. IDENTIFICATION

Product name : Oxalic acid concentrate

Number : 000000021249

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance : Serious eye damage, Category 1
or mixture

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: Causes serious eye damage.

Precautionary statements

: **Prevention:**

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

Response:

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

Immediately call a POISON CENTER/ doctor.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: C₂H₂O₄

Chemical nature

: Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>=90.00 - <=100.00 %
Ethanedioic acid; Oxalic acid	144-62-7	>=1.00 - <5.00 %

SECTION 4. FIRST AID MEASURES

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- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : If breathed in, move person into fresh air. Call a physician immediately.
- Skin contact : Wash off immediately with plenty of water. Call a physician if irritation develops or persists.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. Get medical attention immediately.
- Ingestion : Clean mouth with water and drink afterwards plenty of water. Call a physician immediately.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : Fire may cause evolution of: carbon oxides (CO, CO₂).
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Avoid breathing dust or spray mist.
Do not get in eyes, on skin, or on clothing. |
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up | : | Use mechanical handling equipment.
Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations. |

SECTION 7. HANDLING AND STORAGE**Handling**

- | | | |
|---|---|---|
| Precautions for safe handling | : | Wear personal protective equipment.
Use only in well-ventilated areas.
Do not get in eyes, on skin, or on clothing. |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |

Storage

- | | | |
|--|---|--|
| Conditions for safe storage, including any incompatibilities | : | Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place. |
|--|---|--|

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | | |
|---------------------|---|--|
| Protective measures | : | Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. |
|---------------------|---|--|

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Do not get in eyes, on skin, or on clothing.

- Engineering measures : Provide adequate ventilation.
- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Protective suit
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : General industrial hygiene practice.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Ethanedioic acid; Oxalic acid	144-62-7	STEL : Short term exposure limit	2 mg/m3	03 2015	ACGIH:US. ACGIH Threshold Limit Values, as amended
Ethanedioic acid; Oxalic acid	144-62-7	TWA : Time weighted average	1 mg/m3	03 2015	ACGIH:US. ACGIH Threshold Limit Values, as amended
Ethanedioic acid; Oxalic acid	144-62-7	STEL : Short term exposure limit	2 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Ethanedioic acid; Oxalic acid	144-62-7	REL : Recommended exposure limit (REL):	1 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended

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Ethanedioic acid; Oxalic acid	144-62-7	PEL : Permissible exposure limit	1 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Ethanedioic acid; Oxalic acid	144-62-7	TWA : Time weighted average	1 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ethanedioic acid; Oxalic acid	144-62-7	STEL : Short term exposure limit	2 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: odourless
pH	: Note: acidic
Melting point/range	: Note: no data available
Boiling point/boiling range	: ca. 100 °C
Flash point	: Note: Not applicable
Evaporation rate	: Note: no data available

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Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: no data available
Vapor density	: Note: no data available
Density	: ca. 1.02 g/cm ³
Water solubility	: Note: soluble
Partition coefficient: n-octanol/water	: log Pow: -1.7 at 23 °C Method: OECD Test Guideline 107
Ignition temperature	: Note: no data available
Decomposition temperature	: Note: Stable under recommended storage conditions.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Molecular weight	: 90.03 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: None known.

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Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: no data available
: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Note: no data available

Acute dermal toxicity : Note: no data available
: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Skin irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

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- Toxicity to fish : static test
LC50: 160 mg/l
Exposure time: 48 h
Species: Leuciscus idus (Golden orfe)
- Toxicity to daphnia and other aquatic invertebrates : Immobilization
EC50: 162.2 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
- Toxicity to algae : Growth inhibition
80 mg/l
Exposure time: 8 d
Species: Microcystis aeruginosa (blue alge)
- Toxicity to bacteria : Cell multiplication inhibition test
1,550 mg/l
Exposure time: 16 h
Species: Pseudomonas putida

Elimination information (persistence and degradability)

- Bioaccumulation : Note: Bioaccumulation is unlikely.
- Biodegradability : aerobic
Result: rapidly biodegradable
Value: 89 %

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

- Disposal methods : Observe all Federal, State, and Local Environmental regulations.

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SECTION 14. TRANSPORT INFORMATION**DOT** Not dangerous goods**TDG** Not dangerous goods**IATA** Not dangerous goods**IMDG** Not dangerous goods

Other information : Storage-/Transp.-Temp. > 15 °C
Storage-/Transp.-Temp. < 40 °C

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Ethanedioic acid; Oxalic acid 144-62-7

New Jersey RTK : Ethanedioic acid; Oxalic acid 144-62-7

Pennsylvania RTK : Ethanedioic acid; Oxalic acid 144-62-7

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

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Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group