



## SAFETY DATA SHEET

Version 2.2

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

#### 1.1 Product identifiers

Product name : oxalic acid dihydrate

CAS-No. 6153-56-6

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

Oxalic acid is best known as an agent in wood bleaching. Oxalic acid also is a popular cleaning agent. Oxalic acid can be used to remove rust stains from kitchen counter tops, plumbing pipes and even fabric. It's also used in the treatment of wastewater, because oxalic acid helps remove calcium from water. It even can be used as a reducing agent for photography.

#### 1.3 Details of the supplier of the safety data sheet

Company: Tianjin Chengyi International Trading Co., Ltd.

Room 1309, Wufeng Building, No.11 Zhenxing Street, National Hi-Tech Industrial Development Zone of Taiyuan, Shanxi, China. Post Code 030006

Tel: +86 351-8281246

Fax: +86 351-8206170

#### 1.4 Emergency telephone Number:

Chemtrec at 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 4)

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word:

Warning

Hazard statement(s)

H302 + H312

Harmful if swallowed or in contact with skin

Precautionary statement(s)

P264

Wash skin thoroughly after handling.

P270

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

P280

Wear eye protection/ face protection.

P280

Wear protective gloves/ protective clothing.

P301 + P312 + P330

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you



- feel unwell. Rinse mouth.
- P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P305 + P351 + P338 + P310 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 or doctor/ physician.
- P363 Wash contaminated clothing before reuse.
- P501 Dispose of contents/ container to an approved waste disposal plant.
- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances Synonyms : Ethanedioic acid  
Formula :  $C_2H_2O_4 \cdot 2H_2O$   
Molecular Weight : 126.07 g/mol

Component	Concentration
Oxalic acid dihydrate	
CAS-No. 6153-56-6 EC-No. 205-634-3	$\geq 99.6\%$

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

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

no data available

### 5. FIRE-FIGHTING MEASURES



#### 5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

no data available

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic.

#### 7.3 Specific end uses

no data available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components with workplace control parameters

OEL (TWA): 1 mg/m<sup>3</sup> (ACGIH 1990-1991).

OEL (como STEL): 2 mg/m<sup>3</sup> (ACGIH 1990-1991).

DNEL for workers:

Local effects - acute: DNEL (derived not effect level) dermal: 0.69 mg / cm<sup>2</sup>

Systemic effects - long term: DNEL (derived not effect level) dermal: 2.29 mg / kg bw / day

Systemic effects - long term: DNEL (derived not effect level) inhalation: 4.03 mg / m<sup>3</sup>

DNEL for the general population:



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Local effects - acute: DNEL (derived not effect level) Dermal: 0.35 mg / cm<sup>2</sup>

Systemic effects - long term: DNEL (derived not effect level) Dermal: 1.14 mg / kg bw / day

Systemic effects - long term: DNEL (derived not effect level) Oral: 1.14 mg / m<sup>3</sup>

PNEC water (freshwater): 0.1622 mg / L

PNEC water (sea water): 0.01622

PNEC water (intermittent spills): 1,622 mg / L

## 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9.PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: crystalline Colour: white
b) Odour	odourless
c) Odour Threshold	no data available
d) pH	1 at 108g/L at 25 °C.sol.)
e) Melting point/freezing point	Melting point/range: 95.42°C
f) Initial boiling point and	no data available



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boiling range

- |   |                            |
|---|----------------------------|
| g) Flashpoint                                   | no data available          |
| h) Evaporation rate                             | no data available          |
| i) Flammability(solid,gas)                      | non flammable              |
| j) Upper/lower flammability or explosive limits | no data available          |
| k) Vapour pressure                              | < 0.01 hPa at 20 °C        |
| l) Vapour density (air = 1)                     | no data available          |
| m) Relative density                             | ca. 1900 kg/m <sup>3</sup> |
| n) Water solubility                             | ca.108 g/L at 25 °C        |
| o) Partition coefficient:n-octanol/water        | log Pow: -0.81             |
| p) Autoignition temperature                     | no data available          |
| q) Decomposition temperature                    | no data available          |
| r) Viscosity                                    | no data available          |
| s) Explosive properties                         | no data available          |
| t) Oxidizing properties                         | no data available          |

## 9.2 Other safety information:

Bulk density 0.90 g/l

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Avoid moisture.

### 10.5 Incompatible materials

Bases, Metals, Acid chlorides, Alkali metals

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 1,080 mg/kg

Inhalation: No data available

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation



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Serious eye damage/eye irritation

Eyes - Rabbit

Result: Risk of serious damage to eyes.

(OECD Test Guideline 405)

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Result: Not mutagenic in Ames Test

Histidine reversion (Ames)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: 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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Possible risk of congenital malformation in the fetus.

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Effects due to ingestion may include:, Nausea, Vomiting, Local irritation

Inhalation may provoke the following symptoms:, Cough, Shortness of breath

Kidney injury may occur., Cardiovascular effects.

Stomach - Irregularities - Based on Human Evidence

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 160 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 137 mg/l - 48 h

### 12.2 Persistence and degradability

no data available

### 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 Other adverse effects

no data available

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

##### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

### 15. REGULATORY INFORMATION

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

TSCA: substance is listed

#### 15.2 Chemical Safety Assessment

no data available

### 16. OTHER INFORMATION

#### Further information

Tianjin Chengyi International Trading Co., Limited. gives no warranty, express or implied, as to the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and/or compliance with federal, state, and local laws and regulations.

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End of SDS