SAFETY DATA SHEET

SECTION 1: Identification of the Substance/Mixture and of the

Company/Undertaking

1.1 Product Identifier

Product Name: Oxalic Acid

CAS No.: 144-62-7

EC No.: 205-634-3

Molecular Formula: C₂H₂O₄

Molecular Weight: 90.04 g/mol

1.2 Relevant Identified Uses

Laboratory chemicals

Industrial applications

Uses Advised Against:

Not for food, drug, pesticide, or household use.

1.3 Details of the Supplier

Company Name: Qingdao Sigma Chemical Co., Ltd.

Address: Room 2-1-2301, Jiahe Xinxing, No. 130, Shandong Road, Shibei

District, Qingdao City, Shandong Province

Email: 786099005@qq.com

1.4 Emergency Telephone Number

Local Emergency Number: +86 (0)532-6670-XXXX (provide actual number)

International Emergency Number: +86 (0)532-6670-XXXX

SECTION 2: Hazards Identification

2.1 Classification of the Substance

Acute Oral Toxicity (Category 4) – Harmful if swallowed (H302)

Acute Dermal Toxicity (Category 4) – Harmful in contact with skin (H312)

Serious Eye Damage (Category 1) – Causes serious eye damage (H318)

Specific Target Organ Toxicity (Repeated Exposure, Category 2) – May

damage kidneys/liver (H373)

2.2 Label Elements

Signal Word: Danger

Pictograms: GHS05 (Corrosion), GHS07 (Exclamation Mark)

Hazard Statements:

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.

2.3 Other Hazards

Not classified as PBT, vPvB, or endocrine disruptor.

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Concentration (%)
Oxalic Acid	144-62-7	≥95%

SECTION 4: First-Aid Measures

Inhalation: Remove to fresh air; seek medical attention if symptoms persist.

Skin Contact: Wash immediately with soap and water; remove contaminated clothing.

Eye Contact: Rinse cautiously with water for 15 minutes; seek medical attention.

Ingestion: Rinse mouth; do NOT induce vomiting; seek medical advice.

SECTION 5: Fire-Fighting Measures

Extinguishing Media: Water spray, CO₂, dry chemical, alcohol-resistant foam.

Hazardous Combustion Products: CO, CO₂.

Protective Equipment for Firefighters: Wear self-contained breathing

apparatus.

SECTION 6: Accidental Release Measures

Personal Precautions: Avoid dust formation; use PPE.

Environmental Precautions: Prevent release into drains or environment.

Clean-Up Methods: Sweep up and dispose in approved containers.

SECTION 7: Handling and Storage

Handling: Use in well-ventilated areas; avoid dust inhalation.

Storage: Store in a cool, dry place; keep container tightly closed.

SECTION 8: Exposure Controls/Personal Protection

Exposure Limits:

ACGIH TLV: 1 mg/m³ (TWA), 2 mg/m³ (STEL)

OSHA PEL: 1 mg/m³ (TWA)

PPE:

Eye Protection: Chemical goggles (EN166).

Gloves: Nitrile rubber (EN374).

Respiratory Protection: Dust mask (if airborne exposure exceeds limits).

SECTION 9: Physical and Chemical Properties

Property	Value	
Appearance	White crystalline powder	
Odor	Odorless	
Melting Point	189 - 191° C	
Solubility in Water	90 g/L (20° C)	
pH (1% solution)	1.3	

SECTION 10: Stability and Reactivity

Stable under normal conditions.

Incompatible Materials: Strong oxidizers, bases, metals.

Hazardous Decomposition Products: CO, CO₂.

LD50 (Oral, Rat): 375 mg/kg Target Organs: Kidneys, liver, eyes. Not classified as carcinogenic or mutagenic. **SECTION 12: Ecological Information** Ecotoxicity (Water Flea, EC50): 136.9 mg/L (48h). **Persistence:** Low bioaccumulation potential. **SECTION 13: Disposal Considerations** Dispose of as hazardous waste in compliance with local regulations. **SECTION 14: Transport Information** Not regulated for transport (non-hazardous per IMDG/IATA/ADR).

SECTION 15: Regulatory Information

SECTION 11: Toxicological Information

SECTION 16: Other Information

Prepared By: Qingdao Sigma Chemical Co., Ltd.

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