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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

OXALIC ACID

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

1.1 Product identifier:	
CAS Number:	144-62-7
EC number:	205-634-3
1.2 SYNONYMS:	• Ethanedioic acid • Acid of oxalate • Oxalate acid

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, oral (Category 4) Acute toxicity, dermal (Category 4) Serious eye damage, (Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H302 + H312:** Harmful if swallowed or in contact with skin. **H318:** Causes serious eye damage.
Precautionary Statements:	**P264:** Wash skin thoroughly after handling. **P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection. **P301 + P312:** IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

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	P302 + P352 + P312: IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ doctor if you feel unwell. **P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P362 + P364:** Take off contaminated clothing and wash it before reuse. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and shortness of breath, potentially leading to more severe lung damage with prolonged exposure.
Ingestion:	can cause severe gastrointestinal irritation, nausea, vomiting, abdominal pain, and in extreme cases, kidney damage or systemic toxicity.
Skin Contact:	can cause irritation, redness, and burns, particularly with prolonged or concentrated exposure.
Eye contact:	can cause severe irritation, redness, pain, and potential damage to the cornea, leading to impaired vision if not treated promptly.
Chronic Exposure:	can lead to cumulative damage to the kidneys, potentially resulting in kidney stones, as well as respiratory and skin issues due to ongoing irritation.

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Aggravation of pre-existing conditions:	can aggravate pre-existing conditions such as kidney disorders, respiratory conditions (like asthma), or skin sensitivities, worsening symptoms and potentially leading to more severe complications..

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 144-62-7 OXALIC ACID
Identification number(s):	EC number: 205-634-3

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure to oxalic acid can cause symptoms like nausea, vomiting, abdominal pain, and

	respiratory or skin irritation, while delayed effects may include kidney damage, corneal injury, and long-term respiratory issues with continued exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray, Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into

	closing containers. Clean it with excess of water. Spill must not return in its original container. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Do not handle in flammable atmospheres.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place.
	Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Crystalline solid
Colour:	White
Odour:	Odourless
pH-value:	1.3

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Melting point/Melting range:	189°C
Boiling point/Boiling range:	157°C
Flammability (solid, gaseous):	Combustible in powder form
Ignition temperature:	320°C
Decomposition temperature:	189°C
Self-igniting:	None
Flash point:	None
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not determined
Density at 20 °C:	1.65 g/cm³
Relative density:	1.65
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with-·water at 20 °C:	Highly Soluble
Partition coefficient:(n-octanol/water)	-1.0
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can react with strong oxidizing agents to form heat and hazardous fumes.
10.4 Conditions to avoid	open flames, Heat, moisture.
10.5 Incompatible materials	Strong oxidizing agents, alkali metals, concentrated bases, calcium salts.
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide, acetic acid vapours.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 375 mg/kg **LD50** (Dermal, Rabbit): 20.000 mg/kg **LC50** (Inhalation Rat): no data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	Causes serious eye damage
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	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
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily Biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 160 mg/l (48 hr) EC50(daphnia):162.2 mg/l (48hr) ErC50(algae): 19.83 mg/l (72 hr)
12.2 Persistence and degradability:	Readily Biodegradable
12.3 Bioaccumulative potential:	Not bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	Toxic to aquatic life.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Vinegar, citric acid, hydrochloric acid, baking soda.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1448
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	OXALIC ACID, SOLID
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substances
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the

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