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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

GLYOXYLIC ACID 50%

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

1.1 Product identifier:	
CAS Number:	298-12-4
EC number:	206-058-5
1.2 SYNONYMS:	• Glyoxalic acid • 2-Oxocarboxylic acid • Oxomalonic acid • Glyoxal acid • Hydroxyethanal 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 Corrosive to metals (Category 1) Serious eye damage (Category 1) Skin sensitisation (Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H290** May be corrosive to metals. **H317** May cause an allergic skin reaction. **H318** Causes serious eye damage.
Precautionary Statements:	**P280 -** Wear protective gloves, protective clothing, and eye protection. **P261 -** Avoid breathing fumes, vapors, or spray.

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	P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water or shower**.** **P305+P351+P338 -** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P304+P340 -** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **P501:** Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, coughing, and difficulty breathing.
Ingestion:	can cause severe gastrointestinal irritation, nausea, vomiting, and abdominal pain.
Skin Contact:	can cause severe irritation, burns, and damage to the skin.
Eye contact:	can cause severe irritation, redness, pain, and potential damage to the eye tissue.
Chronic Exposure:	may lead to skin sensitization, respiratory issues, and long-term irritation to the eyes and mucous membranes.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma) or skin conditions (e.g., eczema), leading to increased irritation or sensitivity.

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 298-12-4 GLYOXYLIC ACID 50%
Identification number(s):	EC number: 206-058-5

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. 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. 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 symptoms include skin and eye irritation, respiratory distress, and gastrointestinal discomfort, while delayed effects may include skin sensitization, chronic respiratory issues, and permanent eye damage with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

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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. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

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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.
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

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:	light yellow liquid
Colour:	Pale Yellow
Odour:	Pungent odor
pH-value:	2.5
Melting point/Melting range:	15°C
Boiling point/Boiling range:	157°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	465°C
Decomposition temperature:	200°C
Self-igniting:	Not applicable
Flash point:	Not determined
Danger of explosion:	Not applicable
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	0.2 mmHg at 25°C
Density at 20 °C:	1.28 g/cm³
Relative density:	1.28

Vapour density:	2.7
Evaporation rate:	Not determined
Solubility in / Miscibility with-·water at 20 °C:	Completely soluble in water.
Partition coefficient:(n-octanol/water)	No data available
Viscosity:	1.4 mPa·s

SECTION 10: Stability and reactivity

10.1 Reactivity	No reaction under storage conditions.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can undergo exothermic reactions with bases and strong oxidizers. Reacts with amines and alcohols to form esters or other derivatives
10.4 Conditions to avoid	Excessive heat, moisture, incompatible materials.
10.5 Incompatible materials	Strong oxidizing agents, Strong bases, alkaline materials.
10.6 Hazardous decomposition products	carbon monoxide, carbon dioxide, Aldehydes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): no data available **LD50** (Dermal, Rabbit): no data available **LC50** (Inhalation Rat): no data available
Skin corrosion/Irritation:	can cause severe skin irritation
Serious eye damage/irritation:	can cause severe eye irritation
Respiratory damage/irritation:	can cause irritation.
Ingestion:	can cause gastrointestinal irritation.
Germ cell mutagenicity:	No data available

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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): no data available EC50(daphnia):no data available EC50(algae): no data available
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:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	water, mild soap solutions, or diluted alkaline solutions.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	3265
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	GLYOXYLIC ACID
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8

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14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Not applicable
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 substance
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 limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.