

SAFETY DATA SHEET

Glycolic Acid

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Issued: 08/03/2024
Revision No: 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Trade name: GLYCOLIC ACID 70 TECH

Relevant identified uses of the substance or mixture and uses advised against:

Use of the Substance/Mixture: Perfumes, fragrances, cosmetics, personal care products.

Uses advised against: At this moment we have not identified any uses advised against.

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Tel: 0116 2311130
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation S.I. 2019/720 (GB CLP):

Regulation S.I. 2019/720 (GB CLP):

Hazard class	Hazard category	Target organs	Hazard statements
Skin corrosion	Category 1	-	H314
Serious eye damage	Category 1	-	H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects:

Human Health: See section 11 for toxicological information.

Physical and chemical hazards: See section 9/10 for physicochemical information.

Potential environmental effects: See section 12 for environmental information.

Label elements:

Labelling according to Regulation S.I. 2019/720 (GB CLP):

Hazard symbols:



Signal word: Danger.

[cont...]

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Hazard statements:	H314 Causes severe skin burns and eye damage.
Precautionary statements:	
Prevention:	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. 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/ doctor.
Disposal:	P501 Dispose of contents/ container to an approved waste disposal plant.
Additional Labelling:	EUH208 Contains formaldehyde. May produce an allergic reaction. EUH071 Corrosive to the respiratory tract.

Hazardous components which must be listed on the label: Glycolic acid.

Other hazards:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Ecological information:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:		Classification (Regulation S.I. 2019/720 (GB CLP)):	
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
Glycolic Acid	70	Acute Tox. 4 inhalation	H332
CAS no.: 79-14-1		Skin Corr. 1B	H314
EC no.: 201-180-5		Eye Dam. 1	H318
EU REACH Reg no.: 01-2119485579-17-XXXX		Acute toxicity estimate	
		Acute oral toxicity: 2040 mg/kg	
		Acute inhalation toxicity (dust/mist): 3.6 mg/l	

For the full text of the H-Statements mentioned in this Section, see Section 16.

Non-hazardous component.

Chemical name	Identification number	Amount [%]
Water	CAS no.: 7732-18-5 EC no.: 231-791-2	> = 30

[cont...]

4. FIRST AID MEASURES

Description of first aid measures:

- General advice:** Take off all contaminated clothing immediately.
- If inhaled:** In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
- In case of skin contact:** Call a physician immediately. Wash off immediately with plenty of water for at least 15 minutes.
- In case of eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
- If swallowed:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.
- Protection of First Aid Responders:** First Aid responders should pay attention to self-protection and use the recommended protective clothing.

Most important symptoms and effects, both acute and delayed:

- Symptoms:** See Section 11 for more detailed information on health effects and symptoms.
- Effects:** Extremely corrosive and destructive to tissue. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. See Section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed:

- Treatment:** Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

- Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media:** High volume water jet.

Special hazards arising from the substance or mixture:

- Specific hazards during firefighting:** Incomplete combustion may form toxic pyrolysis products.
- Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO₂).

Advice for firefighters:

- Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).
- Specific extinguishing methods:** Control smoke with water spray.
- Further advice:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Keep away unprotected persons. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

Methods and materials for containment and cleaning up:

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike for large spills.

Further information: Treat recovered material as described in the section "Disposal considerations".

Reference to other sections: See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers: Store in original container. Gives off hydrogen by reaction with metals.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Further information on storage conditions: Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Advice on common storage: Keep away from food, drink and animal feeding stuffs.

Storage temperature: < 50 °C

Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Other Occupational Exposure Limit Values

Additional information: Contains no substances with occupational exposure limit values.

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Component: Glycolic acid

CAS no.: 79-14-1

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL):

DNEL

Workers, Acute - systemic effects, Inhalation 9.2 mg/m³

DNEL

Workers, Acute - local effects, Inhalation 9.2 mg/m³

DNEL

Workers, Long-term - systemic effects, Inhalation 10.56 mg/m³

DNEL

Workers, Long-term - local effects, Inhalation 1.53 mg/m³

DNEL

Workers, Long-term - systemic effects, Skin contact 57.69 mg/kg bw/day

DNEL

Consumers, Acute - systemic effects, Inhalation 2.3 mg/m³

DNEL

Consumers, Acute - local effects, Inhalation 2.3 mg/m³

DNEL

Consumers, Long-term - systemic effects, Inhalation 2.6 mg/m³

DNEL

Consumers, Acute - local effects, Skin contact 28.85 mg/cm²

DNEL

Consumers, Long-term - systemic effects, Ingestion 0.75 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Fresh water: 0.0321 mg/l

Marine water: 0.0031 mg/l

Intermittent releases: 0.312 mg/l

Sewage treatment plant (STP): 7 mg/l

Fresh water sediment: 0.115 mg/kg ww

Marine sediment: 0.0155 mg/kg ww

Soil: 0.007 mg/kg ww

Secondary poisoning: 16.66 mg/kg food

Exposure controls:

Appropriate engineering controls: Refer to protective measures listed in sections 7 and 8.

Personal protective equipment:

Respiratory protection:

Advice: In case of brief exposure or low pollution use breathing filter apparatus.

Respiratory protection complying with EN 141.

In case of intensive or longer exposure use self-contained breathing apparatus.

[cont...]

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Hand protection:

Advice: Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material: Chloroprene

Break through time: > 480 min

Glove thickness: 0.6 mm

Eye protection:

Advice: Safety goggles. Face shield.

Skin and body protection:

Advice: Impervious clothing. Chemical resistant apron.

Environmental exposure controls:

General advice: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.
If material reaches soil inform authorities responsible for such cases.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Form: Liquid

Physical state: Liquid

Colour: Clear to light yellow

Odour: Characteristic

Odour Threshold: No data available

Melting point/range: 10°C

Boiling point/boiling range: 112°C

Flammability: No data available

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: No data available

Flash point: > 100°C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Self-Accelerating decomposition temperature (SADT): No data available

pH: 0.2 – 0.7

Viscosity:

Viscosity, dynamic: No data available

Viscosity, kinematic: ca. 6.149 mm²/s (23 °C)

Flow time: No data available

[cont...]

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Solubility(ies):

Water solubility:	> 300 g/l (22 °C)
Solubility in other solvents:	No data available
Dissolution Rate:	No data available
Partition coefficient: n-octanol/water: log Pow:	-1.11 (19 °C)
Dispersion Stability:	No data available
Vapour pressure:	0.017 hPa (25 °C)
Relative density:	No data available
Density:	1.25 g/cm ³ (26 °C)
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available
Other information:	No data available

10. STABILITY AND REACTIVITY

Reactivity:

Advice: No decomposition if stored and applied as directed.

Chemical stability:

Advice: Stable under recommended storage conditions.

Possibility of hazardous reactions:

Hazardous reactions: Can liberate flammable hydrogen gas on reaction with metals.

Conditions to avoid: No information available.

Incompatible materials:

Materials to avoid: Oxidizing agents, bases.

Hazardous decomposition products: Carbon Oxides.

11. TOXICOLOGICAL INFORMATION

Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008:

Data for the product:

Acute toxicity:

Oral:

Acute toxicity estimate: 2914.29 mg/kg

Inhalation:

Acute toxicity estimate: > 5 mg/l (4 h; dust/mist) (Calculation method)

Dermal:

No data available.

[cont...]

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Irritation:

Skin:

Results: Causes severe skin burns and eye damage.

Eyes:

Results: Causes serious eye damage.

Sensitisation: No data available.

CMR effects:

CMR Properties:

Carcinogenicity: No data available.

Mutagenicity: No data available.

Reproductive toxicity: No data available.

Specific Target Organ Toxicity:

Single exposure: No data available.

Repeated exposure: No data available.

Other toxic properties:

Repeated dose toxicity: No data available.

Aspiration hazard: No data available.

Component: Glycolic acid **CAS no.:** 79-14-1

Acute toxicity:

Oral:

LD50: 2040 mg/kg (Rat) (US EPA Test Guideline OPP 81-1)

Inhalation:

LC50: > 5.2 mg/l (Rat, female; 4 h; dust/mist) (OECD Test Guideline 403)

LC50: 3.6 mg/l (Rat, male; 4 h; dust/mist) (OECD Test Guideline 403)

Dermal: Study scientifically not justified.

Irritation:

Skin:

Results: Corrosive (Rabbit) (OECD Test Guideline 404)

Eyes:

Results: Irreversible damage. (Rabbit) (OECD Test Guideline 405)

Sensitisation:

Results: Not sensitizing (Dermal; Guinea pig) (OECD Test Guideline 406)

CMR effects:

CMR properties:

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not show mutagenic effects in animal experiments.

Teratogenicity: Causes developmental effects in animals at high, maternally toxic doses.

Reproductive toxicity: Animal testing did not show any effects on fertility.

[cont...]

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Genotoxicity in vitro:

Result:

Negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471).
Negative (Bacterial Reverse Mutation Test; Escherichia coli; with and without metabolic activation) (OECD Test Guideline 471) Negative (Chromosome aberration test in vitro; CHO (Chinese Hamster Ovary) cells; with and without metabolic activation) (OECD Test Guideline 473).
Negative (In vitro gene mutation study in mammalian cells; mouse lymphoma cells; no) (OECD Test Guideline 476).
Positive (In vitro gene mutation study in mammalian cells; mouse lymphoma cells; yes) (OECD Test Guideline 476).

Genotoxicity in vivo:

Result:

Negative (In vivo micronucleus test; Mouse, male and female) (Oral;) (OECD Test Guideline 474).

Specific Target Organ Toxicity:

Single exposure:

Remarks:

No data available.

Repeated exposure:

Remarks:

No data available.

Other toxic properties:

Aspiration hazard:

Not applicable.

Component:

Water

CAS no.:

7732-18-5

Acute toxicity:

Oral:

LD50: > 89800 mg/kg (Rat)

Inhalation: No data available.

Dermal: No data available.

Other routes:

LD50: 25000 mg/kg (intravenous; Mouse)

LD50: 190000 mg/kg (intraperitoneal; Mouse)

Irritation:

Skin:

Result:

No skin irritation.

Eyes:

Result:

No eye irritation.

Sensitisation:

Result:

Not sensitising.

[cont...]

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CMR effects:

CMR Properties:

Carcinogenicity:	Not expected to be carcinogenic.
Mutagenicity:	Not expected to be mutagenic.
Teratogenicity:	No known significant effects or critical hazards.
Reproductive toxicity:	No toxicity to reproduction.

Specific Target Organ Toxicity:

Single exposure:

Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure:

Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties:

Aspiration hazard: Not applicable.

Information on other hazards:

12. ECOLOGICAL INFORMATION

Toxicity:

Component:	Glycolic acid	CAS no.:	79-14-1
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Acute toxicity:

Fish:

LC50: 164 mg/l (Pimephales promelas (fathead minnow), mortality; 96 h) (static test; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates:

EC50: 141 mg/l (Daphnia (water flea), Immobilization; 48 h) (static test; OECD Test Guideline 202)

Algae:

NOEC: 20 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)

ErC50: 44 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)

Component:	Water	CAS no.:	7732-18-5
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Acute toxicity:

Fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Algae: No data available.

Short-term (acute) aquatic hazard:

Results: The product is not classified as dangerous for the environment. Study scientifically unjustified.

[cont...]

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Chronic toxicity:

Persistence and degradability:

Component: Glycolic acid **CAS no.:** 79-14-1

Persistence:

Results: No data available.

Biodegradability:

Results: 78% (aerobic; activated sludge, domestic; Related to: CO₂ formation (% of the theoretical value).; Exposure Time: 11d) (OECD Test Guideline 301B) Readily biodegradable.

Component: Water **CAS no.:** 7732-18-5

Persistence:

Results: No data available.

Biodegradability:

Results: The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential:

Component: Glycolic acid **CAS no.:** 79-14-1

Results: log K_{ow} < 0.3 (25 °C; pH 4 - 10) (OECD Test Guideline 117)
Bioaccumulation is unlikely.

Component: Water **CAS no.:** 7732-18-5

Results: Not applicable.

Mobility in soil:

Component: Glycolic acid **CAS no.:** 79-14-1

Water: The product is water soluble.

Air: Low volatility.

Component: Water **CAS no.:** 7732-18-5

Results: The product will be dispersed amongst the various environmental compartments (soil/water/air).

Results of PBT and vPvB assessment:

Data for the product:

Results: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component: Glycolic acid **CAS no.:** 79-14-1

Results: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Component: Water **CAS no.:** 7732-18-5

Results: The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

[cont...]

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Endocrine disrupting properties:

Data for the product:

Endocrine disrupting potential: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: Glycolic acid **CAS no.:** 79-14-1

Endocrine disrupting potential: No information available about endocrine disruption properties for environment.

Component: Water **CAS no.:** 7732-18-5

Endocrine disrupting potential: No information available about endocrine disruption properties for environment.

Other adverse effects:

Data for the product:

Additional ecological information:

Results: Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Harmful effects to aquatic organisms due to pH-shift.

Component: Glycolic acid **CAS no.:** 79-14-1

Results: Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component: Water **CAS no.:** 7732-18-5

Results: Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.

Contaminated packaging: Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

European Waste Catalogue number: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. TRANSPORT INFORMATION

UN number or ID number: 3265

UN proper shipping name:

ADR: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)

RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)

IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)

[cont...]

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Transport hazard class(es):

ADR-Class: 8

(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code): 8; C3; 80; (E)

RID-Class: 8

(Labels; Classification Code; Hazard Identification Number): 8; C3; 80

IMDG-Class: 8

(Labels; EmS): 8; F-A, S-B

Packing group:

ADR: II

RID: II

IMDG: II

Environmental hazards:

Environmentally hazardous according to ADR: No.

Environmentally hazardous according to RID: No.

Marine Pollutant according to IMDG-Code: No.

Special precautions for user: Not applicable.

Maritime transport in bulk according to IMO instruments: Not applicable for product as supplied.

15. REGULATORY INFORMATION

Chemical safety assessment: No data available.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.