

GLYCOLIC ACID



Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

| | |
|---------------|---------------|
| Product name: | Glycolic Acid |
| CAS Number: | 79-14-1 |
| EC Number: | 201-180-5 |

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

| | |
|--------------|--|
| Product use: | Laboratory chemicals, Industrial & for professional use only |
|--------------|--|

1.3 Details of the supplier of the safety data sheet

| | |
|---------------|---|
| Company name: | East Harbour Group Ltd Miranda House, The Quay Harwich, Essex, CO12 3HH United Kingdom |
|---------------|---|

| | |
|------------|--|
| Telephone: | +44 (0) 333 242 0100 |
| Email: | info@eastharbourgroup.com |

1.4 Emergency telephone number

| | |
|----------------------|---------------|
| Emergency telephone: | 0800 246 1274 |
|----------------------|---------------|

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Inhalation (Category 4), H332

Skin Corrosion (Category 1B), H314

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

C Corrosive R20, R34

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard Statement(s)

H314

Causes severe skin burns and eye damage

H332

Harmful if inhaled



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Precautionary Statement(s)

| | |
|--------------------------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340+P310 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE or Doctor/Physician. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Supplemental Hazard Statements | None |

2.3 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.

Section 3: Composition/information on ingredients

3.1 Substances

| | |
|-------------------|--|
| Synonyms: | Hydroxy acetic acid |
| Formula: | C ₂ H ₄ O ₃ |
| Molecular weight: | 76,05 g/mol |
| CAS-No.: | 79-14-1 |
| EC-No.: | 201-180-5 |

Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component | Classification | Concentration |
|------------------|---|---------------|
| Glycolic Acid | | |
| CAS No. 79-14-1 | Acute Tox. 4; Skin Corr. 1B; H314, H332 | <=100% |
| EC No. 201-180-5 | | |

Hazardous ingredients according to Directive 1999/45/EC

| Component | Classification | Concentration |
|------------------|----------------|---------------|
| Glycolic Acid | | |
| CAS No. 79-14-1 | C, R20 – R34 | <=100% |
| EC No. 201-180-5 | | |

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

Section 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.



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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

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

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 firefighting if necessary.

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 dust formation. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see Section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material 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.

Section 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. For precautions see Section 2.2.



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7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS510): Non-combustible, corrosive hazardous materials.

7.3 Specific end use(s)

Apart from the uses mentioned in Section 1.2 no other uses are stipulated.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters.

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.

8.3 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 uses. 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.

Body protection: Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substances 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 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a fullface supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|-------------------------------|
| Appearance | Form: Liquid |
| Odour | No data available |
| Odour Threshold | No data available |
| pH | 2 at 50 g/l @ 20°C |
| Melting point/freezing point | Melting point/range 75 - 80°C |
| Initial boiling point and boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapour pressure | 10,8 hPa @ 80°C |
| Vapour density | No data available |
| Relative density | 1.257-1.264 20°C |
| Water solubility | Soluble |



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Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition
Viscosity
Explosive properties
Oxidizing properties

log Pow: -1,11
No data available
No data available
No data available
No data available
No data available

9.2 Other safety information

Bulk density

0,6 g/l

Section 10: Stability and Reactivity

10.1 Reactivity

10.2 Chemical Stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

No data available
Stable under recommended storage conditions
No data available
No data available
Bases, oxidizing agents, reducing agents
Other decomposition products – No data available
In the event of fire: see Section 5

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 2.040 mg/kg

LC50 Inhalation - Rat - male - 4 h - 3,6 mg/l

Skin corrosion/irritation

Skin - Rabbit

Result: Corrosive (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Severe eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

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

Reproductive toxicity

Reproductive toxicity - Rat - Oral

Maternal Effects: Other effects. Effects on Embryo or Foetus: Fetotoxicity (except death, e.g., stunted foetus).

Specific Developmental Abnormalities: Musculoskeletal system.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available



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Additional Information

RTECS: MC5250000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Section 12: Ecological Information

12.1 Toxicity

Toxicity to fish

LC50 - Danio rerio (zebra fish) - 5.000 mg/l - 96 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

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.

12.6 Other adverse effects

May be harmful to aquatic organisms due to the shift of the pH. Avoid release to the environment.

Section 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.

Section 14: Transport Information

14.1 UN Number

ADR/RID: 3261

IMDG: 3261

IATA: 3261

14.2 UN proper shipping name

ADR/RID:

IMDG:

IATA:

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic Acid)

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic Acid)

Corrosive solid, acidic, organic, n.o.s. (Glycolic Acid)



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14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

14.6 Special precautions for user

No data available

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

15.2 Chemical Safety Assessment

For this product, a chemical safety assessment was not carried out.

Section 16: Other Information

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

Acute Tox.

Acute toxicity

H314

Causes severe skin burns and eye damage

H332

Harmful if inhaled

Skin Corr.

Skin corrosion

Full text of R-phrases referred to under Sections 2 and 3

C

Corrosive

R20

Harmful by inhalation

R34

Causes burns

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.