

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 **Revision date: 10/03/2018**

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

1.1 Product identifiers

Glycolic Acid (ca. 70% in Water, ca. 12mol/L) Product name:

Product code: G0110

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity (Oral) Category 4 Acute toxicity (Inhalation) Category 4 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Category 2 Reproductive toxicity

Respiratory system Specific target organ toxicity - Single exposure [Category 1] Specific target organ toxicity - Repeated exposure [Category 2] Liver, Thymus

2.2 Label elements

Pictograms or hazard symbols



Precautionary statements



Signal word

H302+H332-Harmful if swallowed or if inhaled. **Hazard statements** H314-Causes severe skin burns and eye damage.

H361fd-Suspected of damaging fertility. Suspected of damaging the unborn child.

H370-Causes damage to organs : Respiratory system

H373-May cause damage to organs through prolonged or repeated exposure: Liver Thymus

P260-Do not breathe mist, vapours or spray.

P280-Wear protective gloves, protective clothing, face protection.

P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor.

P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated

clothing before reuse. P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or 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 or doctor.

2.3 Other hazards

G0110

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Glycolic Acid (ca. 70% in Water,

Page 1 of 5

ca. 12mol/L)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components: Glycolic Acid (ca. 70% in Water, ca. 12mol/L)

 Percent:

 CAS RN:
 79-14-1

 EC-No:
 201-180-5

Synonyms: Hydroxyacetic Acid (ca. 70% in Water, ca. 12mol/L)

Chemical Formula: C₂H₄O₃

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure

to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

etc

6.2 Environmental precautions Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly

disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from

incompatible materials such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available.

Glycolic Acid (ca. 70% in Water, ca. 12mol/L)

Page 2 of 5

SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Clear

Colour:Colorless - YellowOdour:No data availablepH:No data available

Melting point/freezing point: 10°C
Boiling point/range: 112°C

Flash point:

Evaporation rate(Butyl Acetate=1):

No data available
No data available
No data available
No data available

Flammability or explosive limits:

Lower:No data availableUpper:No data availableVapour pressure:No data availableVapour density:No data available

Relative density: 1.27

Solubility(ies):

[Water] No data available [Other solvents] No data available

Partition coefficient: -1.11

n-octanol/water:

Autoignition temperature: No data available
Decomposition temperature: No data available
Dynamic Viscosity: No data available
Kinematic viscosity: No data available

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoidNo data available

10.5 Incompatible materials Oxidizing agents, Strong bases, Metals, Sulfides, Cyanides

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

Glycolic Acid (ca. 70% in Water, ca. 12mol/L)

Page 3 of 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

orl-rat LD50:1938 mg/kg **Acute Toxicity:**

ihl-rat LC50:3600 mg/m3/4H

ivn-cat LD50:1 g/kg skn-rbt 0.5 mL SEV eye-rbt 2 mg SEV Respiratory or skin sensitization: No data available

Germ cell mutagenicity:

Skin corrosion/irritation:

Serious eye damage/irritation:

No data available

Carcinogenicity:

IARC = No data available NTP = No data available

Reproductive toxicity: orl-rat TDLo:5250 mg/kg (7-21D preg)

STOT-single exposure: No data available No data available STOT-repeated exposure: No data available Aspiration hazard: MC5250000 **RTECS Number:**

SECTION 12: Ecological information

12.1 Toxicity

Fish: 96h LC50:78 mg/L (Oryzias latipes) Crustacea: 48h EC50:44 mg/L (Daphnia magna)

72h EC50:36 mg/L (Selenastrum capricornutum) Algae:

12.2 Persistence and degradability No data available

No data available 12.3 Bioaccumulative potential

12.4 Mobility in soil

Log Pow: -1.11

Soil adsorption (Koc): No data available Henry's Law (PaM 3/mol): No data available

12.5 Results of PBT and vPvB assessment

Not applicable PBT: vPvB: Not applicable

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

> Glycolic Acid (ca. 70% in Water, ca. 12mol/L)

Page 4 of 5

SECTION 14: Transport information

14.1 UN number 3265

14.2 UN proper shipping name

ADR/RID Corrosive liquid, acidic, organic, n.o.s
IMDG/IMO Corrosive liquid, acidic, organic, n.o.s
ICAO/IATA Corrosive liquid, acidic, organic, n.o.s

14.3 Transport hazard class(es)

ADR/RID 8: Corrosive
IMDG/IMO 8: Corrosive
ICAO/IATA 8: Corrosive

14.4 Packaging group

ADR/RID || IMDG/IMO || II ICAO/IATA || II

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for userNo data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Water Hazard Classes (WGK): Class 1 - Low hazard to waters

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet