

## 1. Identification of the substance/preparation and of the company/undertaking

### *Identification of the product*

Ethylene glycol

### *Manufacturer/supplier identification*

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## 2. Hazards identification

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)

Specific target organ toxicity - repeated exposure, Oral (Category 2), Kidney

### Label elements

Pictogram



Signal word Warning

### Hazard statement(s)

H302 Harmful if swallowed.

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

### Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly body.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/ container to an approved waste disposal plant.

### Supplemental Hazard Statements

none

## 3. Composition/information on ingredients

### *Synonyms*

Ethylene glycol

CAS-No.: 107-21-1

M: 62.07 g/mol

Molecular formula:C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>

## 4. First aid measures

### If inhaled

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If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

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.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. Fire-fighting measures**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental release measures**

**Personal precautions**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7. Handling and storage**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

**Conditions for safe storage**

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.

**8. Exposure controls and personal protection**

**Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment**

**Eye/face protection**

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 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 and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type

N95 (US) or type P1 (EN 143) dust masks. 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. Discharge into the environment must be avoided.

## **9. Physical and chemical properties**

**Form:** viscous liquid

**Colour:** colorless, clear

**Odour:** not available

**pH value:** not available

**Melting point:** -13°C

**Boiling point:** 196~198°C

**Ignition temperature:** not available

**Flash point:** 111°C

**Autoignition temperature:** 400°C

**Explosion limits**

**lower:** 3.2 %(V)

**upper:** 15.3 %(V)

**Density :**1.113 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** soluble in water.

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## **10. Stability and reactivity**

**Chemical stability**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Strong acids, Strong oxidizing agents, Strong bases, Aldehydes, Aluminum

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## **11. Toxicological information**

**Acute toxicity**

LD50 Oral - Rat - 4,700 mg/kg

LD50 Dermal - Rabbit - 10,626 mg/kg

**Skin corrosion or irritation**

Skin - Rabbit - No skin irritation

**Serious eye damage or eye irritation**

Eyes – Rabbit

Result: Mild eye irritation - 24 h

**Respiratory or skin sensitization**

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**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

Oral - May cause damage to organs through prolonged or repeated exposure. - Kidney

**Aspiration hazard**

no data available

**12. Ecological information****Toxicity**

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h

LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h(Ethylene glycol)

NOEC - Daphnia (water flea) - 24,000 mg/l - 48 h(Ethylene glycol)

LC50 - Daphnia magna (Water flea) - 41,000 mg/l - 48 h

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**13. Disposal considerations****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information****ADR/RID**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

**IMDG**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

Marine pollutant: no

**IATA**

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

**15. Regulatory information**

# **GHTECH** Material Safety Data Sheet

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This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

## **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.