



## 2041 Thioglycollic Acid 80%

### 1. Identification of the substance/preparation and of the company or firm

#### 1.1 Identification of the substance or preparation

Name:

Thioglycollic Acid 80%

#### Synonym:

Mercaptoacetic acid

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

#### 1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

#### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## 2. Identification of dangers

Classification of the substance or the mixture.

### Classification Regulation (CE) n° 1272/2008.

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

Skin Corr. 1B

### Hazard Pictograms



**Signal word**

Danger

**Hazard statements**

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

**Classification (67/548/CEE or 1999/45/CE).**

T Toxic

R34

R23/24/25

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

**3. Component Composition/Information**

Name: Thioglycollic Acid 80%

Formula: HSCH<sub>2</sub>COOH M.= 92,12 CAS [68-11-1]

EC number (EINECS): 200-677-4

EC index number: 607-090-00-6

**4. First aid****4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

**4.2 Inhaling:**

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

**4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

**4.4 Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

**4.5 Swallowing:**

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance.

## **5. Fire-fighting means**

### **5.1 Suitable fire-extinguishing means:**

Water. Cool the container with water. Use atomized water to wash down any fumes given off.

### **5.2 Fire-fighting means which must NOT be used:**

No specific data.

### **5.3 Special risks:**

Incombustible. In the event of fire, toxic fumes may form: SO<sub>x</sub>, H<sub>2</sub>S. Risk of explosion in the event of decomposition.

### **5.4 Protective equipment:**

Self-contained breathing equipment. Suitable clothing and footwear.

## **6. Measures to be taken in the event of accidental spillage**

### **6.1 Individual precautions:**

Do not inhale the fumes.

### **6.2 Precautions for care of the environment:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

### **6.3 Methods for collection/cleaning:**

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with diluted sodium hydroxide.

## **7. Handling and storage**

### **7.1 Handling:**

Limited shelf-life.

### **7.2 Storage:**

40 °C Store at a temperature of below Restricted access, only authorized to technicians. Transport and storage recommended in stainless steel or polyethylene containers.

## **8. Staff exposure/protection controls**

### **8.1 Technical protective measures:**

No special indications.

### **8.2 Exposure limit control:**

VLA-ED: 1 ppm - 3,8 mg/m<sup>3</sup>

### **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Use complete protective equipment. Remove contaminated clothing. Wash hands and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

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

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Unpleasant, characteristic.

pH: 1

Melting point/freezing point: -15 °C -10 °C

Initial boiling point and boiling range:

N/A

Flash point: 126 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 0,2 hPa (30 °C)

Vapour density: N/A

Relative density: (20/4) 1,27

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

High temperatures.

### **10.2 Matter which should be avoided:**

Strong oxidant agents. Organic compounds. Strong bases.

### **10.3 Hazardous decomposition products:**

Sulphur dioxide. Hydrogen sulphide.

### **10.4 Complementary information:**

Reacts easily. Has a tendency to instability.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 114 mg/kg  
LD L0 skn rbt : 300 mg/kg  
LC L0 inh mus : 7 mg/m<sup>3</sup> 2h  
LC L0 inh rat : 7 mg/m<sup>3</sup> 2h

### **11.2 Dangerous effects for health:**

If fumes inhaled: Irritations to the mucosae coughing breathing difficulties Upon contact with the skin: irritations burns Through contact with the eyes: irritations burns Risk of blindness (irreversible injury of the optic nerve) If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause sensitization allergic reaction Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):  
Fish (Leuciscus Idus) 880 mg/l

Classification:

Highly toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.1.3. - Observations:

Acute ecotoxicity in the dumping area, depending on the dilution effect.

### **12.2 Persistence and Degradability :**

12.2.1 - Test:

DBOD 8D% of ThOD 5/d

ThOD 0,1 g/g

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

Medium, between 1/3 and 1/10

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Biodegradable product.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Non-bioaccumulable product.

### **12.4 Mobility in soil :**

Repartition: log P(oct)= 0.05

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other possible effects on the environment:**

Product hardly pollutant for water if handled and/or treated correctly.

### **13. Considerations regarding elimination**

#### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

.

#### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

.

### **14. Information concerning transport**

Overland (ADR):

Technical name: THIOGLYCOLIC ACID

UN 1940 Class: 8 Packaging group: II (E)

By sea (IMDG):

Technical name: THIOGLYCOLIC ACID

UN 1940 Class: 8 Packaging group: II

By air (ICAI-IATA):

Technical name: Thioglycolic acid

UN 1940 Class: 8 Packaging group: II

Packaging instructions: CAO 855 PAX 851

### **15. Regulatory information**

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

### **16. Other information**

### Other precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P311 Call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment (see on this label).  
P322 Specific measures (see on this label).  
P330 Rinse mouth.  
P338 Remove contact lenses, if present and easy to do. Continue rinsing.  
P361 Remove/Take off immediately all contaminated clothing.  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Labelling (65/548/CEE or 1999/45/CE)

R-phrases: **R34** Causes burns.  
**R23/24/25** Toxic by inhalation, in contact with skin and if swallowed.

S-phrases: **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
**S28a** After contact with skin, wash immediately with plenty of water.  
**S27** Take off immediately all contaminated clothing.  
**S25** Avoid contact with eyes.

Review number and date: 4 15.09.2011

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.