

## 1. Identification

Product Code **1110719**

Product Name **THIOGLYCOLLIC ACID pure**

Molecular Formula **CH<sub>2</sub>(SH)COOH =92.11**

CAS Number **68-11-1**

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## 2. Composition

| Component          | CAS No  | EEC No    | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|--------------------|---------|-----------|----------|-------------------------------|---------------|
| Thioglycollic acid | 68-11-1 | 200-677-4 | > 97.0%  | T C : R23/24/25,R34           | WEL           |

## 3. Hazards Identification



Toxic by inhalation, in contact with skin and if swallowed. Causes burns.

## 4. First Aid Measures

**Eyes** Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.

**Skin** Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.

**Inhalation** Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

**Ingestion** If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

## 5. Fire Fighting Measures

**Hazards** Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

**Extinguishing Media** Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.

**Unsuitable Media** Do not use water jet.

## 6. Accidental Release Measures

|                     |   |
|---------------------|---|
| Personal Protection | Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so. |
| Environmental       | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.                                |
| Major Spillage      | Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.  |
| Minor Spillage      | Contain and absorb on inert material. Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash to drain with copious amounts of water.                                   |

## 7. Storage & Handling

|                      |  |
|----------------------|--|
| Handling Precautions | Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.<br><br>Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits. |
| Storage Conditions   | Well ventilated, cool, dry storage . Keep containers closed when not in use.   |

## 8.1 Workplace Exposure Limits

|                           |                            |           |              |
|---------------------------|----------------------------|-----------|--------------|
| Workplace Exposure Limits | Long Term (8hr TWA):       | 1.000 ppm | 5.000 mg m-3 |
|                           | Short Term (15min Period): | - ppm     | - mg m-3     |

## 8.2 Personal Protection

|             |   |
|-------------|---|
| Respiratory | Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus. |
| Hands       | Use PVC gauntlets.  |
| Eyes        | Use chemical full face shield.  |
| Skin        | Wear PVC oversuit.  |

## 9. Physical & Chemical Properties

|                       |   |
|-----------------------|---|
| Appearance            | Clear colourless to pale yellow liquid. |
| Odour                 | Characteristic mercaptan type odour.    |
| pH                    | Not available                           |
| Boiling point         | 94.0 °C                                 |
| Melting point         | 11.0- °C                                |
| Flash point           | Not available                           |
| Upper Flammable Limit | Not available                           |
| Lower Flammable Limit | Not available                           |
| Auto Ignition         | Not available                           |
| Explosive properties  | No.                                     |
| Oxidising Properties  | No.                                     |
| Vapour Pressure       | 0.2 hPa @ 20 C                          |
| Relative Density      | 1.3200 °C                               |
| Water Solubility      | Completely miscible in water.           |

## 10. Stability & Reactivity

|                                  |  |
|----------------------------------|--|
| Chemical Stability               | Stable under normal conditions                               |
| Conditions to Avoid              | May liberate very toxic hydrogen sulphide on strong heating. |
| Materials to Avoid               | Strong oxidising agents.                                     |
| Hazardous Decomposition Products | Decomposes to form very toxic hydrogen sulphide.             |

## 11. Toxicological Information

|                      |  |
|----------------------|--|
| Eyes                 | The vapour is irritating to the eyes. The liquid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness.   |
| Skin                 | The liquid and solutions will cause severe burns. Repeated exposure may cause dermatitis.  |
| LD50 Skin            | Rabbit 300 mg/Kg   |
| Ingest               | Toxic if swallowed. Causes severe corrosion of the mouth, throat and gastro-intestinal tract.  |
| LD50 Ingest          | Oral Rat 114 mg/Kg   |
| Inhalation           | Exposure to vapour concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the membranes lining the nose, throat and upper respiratory tract. |
| Carcinogenicity      | Not considered to be a carcinogen.   |
| Mutagenicity         | Not considered to be a mutagen.  |
| Reproductive Effects | None identified.   |
| Other Information    | The irritant effect provides warning that control of exposure is needed. 10ppm is the threshold for irritation with severe irritation occurring above 25ppm.   |

## 12. Ecological

Will absorb oxygen from waterways. Expected to be biodegradable.

## 13. Disposal Considerations

|                        |   |
|------------------------|---|
| Disposal Methods       | Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. |
| Contaminated Packaging | Use a licensed waste disposer.  |

## 14. Transport Information

|                      |                   |
|----------------------|-------------------|
| Proper Shipping Name | Thioglycolic acid |
| UN Number            | 1940              |
| UN Classification    | 8 Corrosive       |
| Subsidiary Risk      | None              |
| Flash Point          | Not available     |
| Packing Group        | II                |
| Transport Category   | 2                 |
| Marine pollutant     | No                |
| ADR Hazard ID        | 80                |



## 15. Regulatory Information

|                |                   |
|----------------|-------------------|
| Labelling      | Toxic, Corrosive. |
| Classification |                   |

|               |   |  |   |  |
|---------------|---|--|---|--|
| Label Symbols | T |  | C |  |
|---------------|---|--|---|--|

|                       |  |
|-----------------------|--|
| Risk & safety Phrases | Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Keep locked up and out of reach of children. Avoid contact with eyes. Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label). |
|-----------------------|--|

|            |           |
|------------|-----------|
| EEC Number | 200-677-4 |
|------------|-----------|

## 16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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