According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 1 of 9

Thiogylcolic Acid, ACS

SECTION 1: Identification

Product identifier

Product name: Thiogylcolic Acid, ACS

Product code: TH5500

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory chemicals

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer: United States

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

Emergency telephone number:

United States

ChemTel Inc

+1(800)255-3924

+1(813)248-0585

SECTION 2: Hazard(s) identification

GHS classification:

Acute toxicity (oral), category 3 Acute toxicity (inhalation), category 3 Acute toxicity (inhalation), category 3 Skin corrosion, category 1B

Label elements

Hazard pictograms:





Signal word: Danger Hazard statements:

H301 Toxic if swallowed

H331 Toxic if inhaled

H314 Causes severe skin burns and eye damage

Precautionary statements:

P264 Wash skin thoroughly after handling

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

P271 Use only outdoors or in a well-ventilated area

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection

P321 Specific treatment (see supplemental first aid instructions on this label).

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 2 of 9

Thiogylcolic Acid, ACS

P363 Wash contaminated clothing before reuse

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

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/physician.

P405 Store locked up

P403+P233 Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

| Ide | entification | Name | Weight % |
|-----|----------------------|------------------------|----------|
| | AS number: 3-11-1 | Thioglycolic Acid, ACS | 100 |

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Move exposed individual to fresh air

Call a POISON CONTROL CENTER or seek medical attention

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Immediately remove all contaminated clothing

Wash affected area with soap and water

Immediately call a POISON CONTROL CENTER or seek medical attention

After eve contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lenses, if present and easy to do

Continue rinsing

Get medical advice/attention

Remove contact lens(es) if able to do so during rinsing

Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

Immediately call a POISON CONTROL CENTER or seek medical attention

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 3 of 9

Thiogylcolic Acid, ACS

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 4 of 9

Thiogylcolic Acid, ACS

Avoid breathing mist or vapor.

Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|------------------------|------------|------------------------------|
| ACGIH | Thioglycolic Acid, ACS | 68-11-1 | ACGIH TLV TWA 1 ppm [skin] |
| NIOSH | Thioglycolic Acid, ACS | 68-11-1 | NIOSH REL TWA 1 ppm [skin] |
| | Thioglycolic Acid, ACS | 68-11-1 | NIOSH REL TWA 4 mg/m³ [skin] |
| United States (OSHA) | Thioglycolic Acid, ACS | 68-11-1 | TWA: 4 mg/m³ (1 ppm) |

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Clear, colorless liquid | |
|------------------------------|----------------------------------|--|
| Odor | Odorless | |
| Odor threshold | Not determined | |
| pH | 1.5 at 10 g/l at 20 °C (68 °F) | |
| Melting point/freezing point | - 16 °C (3 °F) | |
| Initial boiling point/range | 96 °C (205 °F) at 7 hPa (5 mmHg) | |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 5 of 9

Thiogylcolic Acid, ACS

| Flash point (closed cup) | 130 °C (266 °F) - closed cup | | |
|--|---|--|--|
| Evaporation rate | Not determined | | |
| Flammability (solid, gas) | Not determined | | |
| Upper flammability/explosive limit | Not determined | | |
| Lower flammability/explosive limit | 5.9% | | |
| Vapor pressure | 0.5 hPa (0.4 mmHg) at 25 °C (77 °F) | | |
| Vapor density | 3.18 - (Air = 1.0) | | |
| Density | Not determined | | |
| Relative density | 1.325 g/cm ³ | | |
| Solubilities | None | | |
| Partition coefficient (n-octanol/water) | log pow: 0.059 | | |
| Auto/Self-ignition temperature | Not determined | | |
| Decomposition temperature | Not determined | | |
| Dynamic viscosity | Not determined | | |
| Kinematic viscosity | Not determined | | |
| Explosive properties | Not determined | | |
| Oxidizing properties | Not determined | | |
| Solubilities Partition coefficient (n-octanol/water) Auto/Self-ignition temperature Decomposition temperature Dynamic viscosity Kinematic viscosity Explosive properties | None log pow: 0.059 Not determined Not determined Not determined Not determined Not determined Not determined | | |

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Toxic if swallowed Toxic if inhaled Toxic if inhaled

Product data: No data available.

Substance data:

| Name | Route | Result |
|------------------------|------------|------------------------------|
| Thioglycolic Acid, ACS | dermal | LDLo - Rabbit - 300 mg/kg |
| | inhalation | LC50 - Rat - 210 mg/m³ - 4 h |
| | oral | LD50 - Rat - 114 mg/kg |

Skin corrosion/irritation

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 6 of 9

Thiogylcolic Acid, ACS

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

| Name | Result |
|------------------------|---------------------------|
| Thioglycolic Acid, ACS | Causes severe skin burns. |

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. **Substance data:** No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. **Substance data:** No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. **Substance data:** No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. **Substance data:** No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. **Substance data:** No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 7 of 9

Thiogylcolic Acid, ACS

Product data: No data available. **Substance data:** No data available.

Chronic (long-term) toxicity

Product data: No data available. **Substance data:** No data available.

Persistence and degradability

Product data: No data available. **Substance data:** No data available.

Bioaccumulative potential

Product data: No data available. **Substance data:** No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

| UN number | UN 1940 |
|-------------------------------|-------------------|
| UN proper shipping name | Thioglycolic acid |
| UN transport hazard class(es) | 8 |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

International Maritime Dangerous Goods (IMDG)

| UN number | UN 1940 |
|-------------------------------|-------------------|
| UN proper shipping name | Thioglycolic acid |
| UN transport hazard class(es) | 8 |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| UN number | UN 1940 |
|-------------------------|-------------------|
| UN proper shipping name | Thioglycolic acid |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 8 of 9

Thiogylcolic Acid, ACS

| UN transport hazard class(es) | 8 CORROSSUE |
|-------------------------------|-------------|
| Packing group | |
| Environmental hazards | None |
| Special precautions for user | None |

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

| I | 68-11-1 | Thioglycolic Acid, ACS | Listed |
|-----|---------|------------------------|--------|
| - 1 | 00-11-1 | Thioglycolic Acid, ACS | Listeu |

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

| Acute | Chronic | Fire | Pressure | Reactive |
|-------|---------|------|----------|----------|
| Yes | No | No | No | No |

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

| 68-11-1 | Thioglycolic Acid, ACS | Not | |
|---------|------------------------|--------|--|
| | | Listed | |

CERCLA: Not determined. **RCRA:** Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

| 68-11-1 | Thioglycolic Acid, ACS | Listed | | |
|------------------|------------------------|--------|--|--|
| N I B' LL IZ | | | | |

New Jersey Right to Know:

| 68-11-1 | Inioglycolic Acid, ACS | Listed |
|---------|------------------------|--------|
|---------|------------------------|--------|

New York Right to Know:

| 68-11-1 | Thioglycolic Acid, ACS | Listed |
|---------|------------------------|--------|
| | ` | |

Pennsylvania Right to Know:

| 68-11-1 | Thioglycolic Acid, ACS | Listed |
|---------|------------------------|--------|
|---------|------------------------|--------|

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.14.2018 Page 9 of 9

Thiogylcolic Acid, ACS

NFPA: 3-0-0 **HMIS:** 3-0-0

Initial preparation date: 02.14.2018

End of Safety Data Sheet