



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name:Thioglycolic Acid
- Product Number:TGA-20260223
- Brand:SIGALD
- CAS-No.:68-11-1
- Synonyms:Mercaptoacetic acid; TGA

#### 1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

Emergency Phone # : +86-021-50350029  
(CHEMTREC)

#### 1.4 Uses

- Identified Uses:Chemical synthesis, cosmetics (hair waving agents), metalworking (chelating agent), pharmaceuticals, textile processing.
- Uses Advised Against:Direct oral consumption; contact with strong oxidizing agents without protection.

### SECTION 2: Hazards Identification

2.1 GHS Classification:Skin corrosion/irritation (Category 1A); Eye damage (Category 1); Acute toxicity (oral, Category 3); Aquatic toxicity (Category 1); Specific target organ toxicity (single exposure, Category 3)2.2 GHS Label Elements

- Hazard Pictogram:GHS05 (Corrosion), GHS06 (Skull and crossbones), GHS08 (Health hazard), GHS09 (Environment)
- Signal Word:Danger
- Hazard Statements:H314 (Causes severe skin burns and eye damage), H301 (Toxic if swallowed), H335 (May cause respiratory irritation), H400 (Very toxic to aquatic life)
- Precautionary Statements:P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/protective clothing/eye protection/face protection), P270 (Do not eat/drink when using), P305+P351+P338 (If in eyes: Rinse cautiously with water)

### SECTION 3: Composition

- Substance:Pure Substance
- Formula:C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>S
- Molecular Weight:92.12 g/mol



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- Concentration:≥ 98.0% (C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>S)

## SECTION 4: First Aid Measures

- Inhaled:Move to fresh air. Consult a doctor if symptoms persist.
- Skin Contact:Immediately remove contaminated clothing, rinse skin thoroughly with running water for 15-20 minutes. Consult a doctor.
- Eye Contact:Rinse with plenty of water for 15-20 minutes. Immediately call a doctor.
- Swallowed:Rinse mouth with water; do not induce vomiting. Call a poison center/doctor immediately.

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media:Water spray, foam, CO<sub>2</sub>, dry powder.
- Special Hazards:Flammable (flash point 74°C); combustion releases toxic fumes (sulfur oxides).
- Firefighter Protection:Wear full protective gear and breathing apparatus.

## SECTION 6: Accidental Release Measures

- Personal Precautions:Wear chemical protective suit, gloves, eye/face protection, respiratory protection.
- Environmental Precautions:Prevent runoff into waterways.
- Cleanup Methods:Neutralize with alkaline solution; absorb with inert materials; transfer to sealed containers.

## SECTION 7: Handling and Storage

- Handling:Operate in well-ventilated area; avoid skin/eye contact, inhalation.
- Storage Conditions:Cool, dry, well-ventilated warehouse (≤ 30°C); keep sealed; away from oxidizing agents, acids, metals.
- Shelf Life:18 months (unopened).

## SECTION 8: Exposure Controls/Personal Protection

- PPE:Chemical-resistant suit, nitrile gloves, chemical splash goggles, face shield, respirator.
- Engineering Controls:Good ventilation, local exhaust system.

## SECTION 9: Physical and Chemical Properties

- Physical State:Liquid
- Color:Colorless to pale yellow
- Odor:Unpleasant, mercaptan-like odor
- Boiling Point:120-124°C (13 kPa)
- Melting Point:-16°C
- Flash Point:74°C (Closed Cup)
- Solubility:Soluble in water, alcohols, ethers
- Density (25°C):1.325-1.335 g/cm<sup>3</sup>
- pH (1% solution):1.0-2.0

## SECTION 10: Stability and Reactivity

- Stable under normal storage. Incompatible with strong oxidizing agents, acids, heavy metals.

## SECTION 11: Toxicological Information

- Oral LD<sub>50</sub> (Rat):200 mg/kg; Skin Corrosion:Severe corrosion.

## SECTION 12: Ecological Information

- Very toxic to aquatic life; not biodegradable.

## SECTION 13: Disposal Considerations

- Dispose via licensed waste facilities; neutralize before disposal.

## SECTION 14: Transport Information

- UN Number:UN2966
- Transport Hazard Class:8 (Corrosive substances)
- Packaging Group:II

## SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA.

## SECTION 16: Other Information

- Revision Date:23 FEB 2026