



# 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)

### Isothiazolinones Aqueous Solution (Mixture of CMIT & MIT)

#### SECTION 1: Identification

**1.1 Product Identifiers** - Product Name: Isothiazolinones Aqueous Solution - Product Number: ISO-CAS55965849-202801 - Brand: SIGALD - CAS-No.: 55965-84-9 - Synonyms: MIT/CMIT Mixture; Isothiazolone; Kathon-like Preservative - Chemical Family: Heterocyclic Sulfur Compounds

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

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

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

**1.4 Uses & Restrictions** - Identified Uses: Biocide/preservative for water treatment (cooling water, reverse osmosis); paint, coating, and adhesive preservation; textile and leather anti-mildew; daily chemical product preservation. - Uses Advised Against: Food contact (direct); medical injection; use in cosmetics beyond regulated limits.

#### SECTION 2: Hazards Identification

2.1 GHS Classification: Skin corrosion/irritation (Category 1B); Eye damage (Category 1); Skin sensitization (Category 1); Environmental hazard (Category 1, Aquatic toxicity)

2.2 GHS Label Elements - Hazard Pictogram: (Corrosion) + (Skin sensitizer) + (Aquatic hazard) - Signal Word: DANGER - Hazard Statements: H314 (Causes severe skin burns and eye damage); H317 (May cause an allergic skin reaction); H400 (Very toxic to aquatic life) - Precautionary Statements: P260, P280, P281, P301+P330+P331, P304+P340, P305+P351+P338, P317, P391, P501

2.3 Physical/Chemical Hazards: Non-flammable; incompatible with strong oxidizers, strong bases, and reducing agents; decomposes on heating to release toxic fumes.

2.4 Health Hazards: Severe skin/eye burns; skin sensitization (allergic reactions); inhalation of vapor causes respiratory tract irritation; ingestion causes gastrointestinal discomfort and toxicity.

2.5 Environmental Hazards: Highly toxic to aquatic organisms; long-term adverse effects on aquatic ecosystems.

#### SECTION 3: Composition/Information on Ingredients

Substance/Mixture: Mixture

Component	Content (w/w)	CAS-No.	Hazard Classification

Component	Content (w/w)	CAS-No.	Hazard Classification
5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT)	3.75%	2682-20-4	Skin Corros. 1B; Eye Dam. 1; Skin Sens. 1; Aquatic Toxicity 1
2-Methyl-4-isothiazolin-3-one (MIT)	1.25%	2682-20-4	Skin Corros. 1B; Eye Dam. 1; Skin Sens. 1; Aquatic Toxicity 1
Deionized Water	94.0%	7732-18-5	Non-hazardous
Magnesium Chloride (Stabilizer)	1.0%	7786-30-3	Non-hazardous

#### SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; administer oxygen if breathing is difficult; seek medical attention if irritation persists. - Skin Contact: Remove contaminated clothing; rinse skin with plenty of running water for  $\geq 15$  minutes; consult a doctor for burns or allergic reactions. - Eye Contact: Hold eyelids open; rinse with water/normal saline for  $\geq 15$  minutes; seek emergency medical help immediately. - Swallowed: Do not induce vomiting; rinse mouth with water; bring this MSDS to the doctor (toxic and caustic effects risk).

#### SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, CO<sub>2</sub>, dry powder. - Unsuitable Media: No specific restrictions (non-flammable). - Special Hazards: Non-combustible; decomposes on heating to release toxic sulfur oxides and chlorine-containing fumes. - Firefighter Advice: Wear SCBA and full corrosion-resistant protective clothing; cool containers with water spray; avoid inhalation of decomposition fumes.

#### SECTION 6: Accidental Release Measures

- Personal Precautions: Wear full PPE (chemical goggles, face shield, nitrile gloves, acid-resistant clothing, respiratory protection if needed). - Environmental Precautions: Prevent runoff into sewers/rivers; contain with sandbags; neutralize before discharge to aquatic environments. - Cleanup: Small spill - absorb with inert materials (vermiculite) and neutralize with sodium bicarbonate; large spill - dike and transfer to corrosion-resistant tanks for professional treatment.

#### SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; use local exhaust ventilation if vapor is generated; avoid contact with skin/eyes; wear protective equipment at all times. - Storage: Cool, dark, well-ventilated warehouse ( $\leq 25^{\circ}\text{C}$ ); keep container tightly closed; avoid direct sunlight and high temperature; store separately from strong oxidizers, strong bases, and reducing agents. - Shelf Life: 12 months (unopened, specified conditions); use within 1 month after opening.



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### SECTION 8: Exposure Controls/Personal Protection

- Engineering Controls: Install local exhaust ventilation; use closed transfer systems; avoid vapor/aerosol generation. - PPE: Chemical safety goggles + face shield; nitrile rubber gloves (0.15mm+); acid-resistant protective clothing; half-mask respirator with organic vapor/acid gas cartridges (if vapors are generated). - Hygiene Measures: Wash hands thoroughly with soap and water after work; do not eat/drink/smoke in the workplace; avoid touching eyes/face during handling.

### SECTION 9: Physical and Chemical Properties

Physical State: Liquid; Color: Colorless to pale yellow; Odor: Slight pungent characteristic odor  
pH (25°C): 2.0-4.0; Density (25°C): 1.02-1.06 g/cm<sup>3</sup>; Viscosity (25°C): 10-15 mPa·s Boiling Point: 100-105°C; Flash Point: Not applicable (non-flammable); Solubility: Fully miscible with water  
Decomposition Temperature: >80°C; Vapor Pressure (25°C): <1.0 hPa; Partition Coefficient (log P): 1.2 (CMIT)

### SECTION 10: Stability and Reactivity

- Stability: Stable under cool, dark, sealed conditions; decomposes on heating, exposure to strong bases/oxidizers, or UV light. - Incompatibilities: Strong oxidizers (H<sub>2</sub>O<sub>2</sub>, ClO<sub>2</sub>), strong bases (NaOH, KOH), reducing agents (sulfites, Fe<sup>2+</sup>). - Hazardous Decomposition Products: Sulfur dioxide (SO<sub>2</sub>), chlorine gas (Cl<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), toxic organic fumes.

### SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 350 mg/kg (5% solution); Dermal (Rabbit, LD<sub>50</sub>): >2000 mg/kg - Skin/Eye Irritation: Severe skin burns and eye damage (GHS 1B/1); skin sensitization (allergic contact dermatitis). - Respiratory Toxicity: Inhalation of vapor causes mucosal irritation, coughing, and chest discomfort.

### SECTION 12: Ecological Information

- Fish (Zebrafish, LC<sub>50</sub>): 0.03 mg/L (96-hour exposure) - Daphnia (EC<sub>50</sub>): 0.01 mg/L (48-hour exposure) - Biodegradability: Biodegradable but toxic to aquatic organisms at extremely low concentrations.

### SECTION 13: Disposal Considerations

- Product Waste: Neutralize with sodium bicarbonate and treat with biocidal decomposition agents; dispose via licensed hazardous waste treatment facilities. - Packaging Waste: Rinse thoroughly with water; dispose as hazardous waste or recycle if permitted.

### SECTION 14: Transport Information

- UN Number: ADR/RID: UN 3265; IMDG: UN 3265; IATA-DGR: UN 3265 - UN Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Isothiazolinones) - Transport Class: 8 (Corrosive); Packaging Group: II; Environmental Hazards: Yes (Marine Pollutant) - Special Precautions: Transport in corrosion-resistant containers; avoid collision, leakage, and exposure to sunlight/heat.



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### SECTION 15: Regulatory Information

- National Regulations (China): Complies with Hazardous Chemical Safety Management Regulation; meets GB/T 26373-2010. - International Regulations: GHS Rev.9 (Corrosion 1B, Skin Sens. 1, Aquatic Toxicity 1); REACH (EU, registered); TSCA (US, listed).

### SECTION 16: Other Information

- Revision Date: 10 JAN 2026 - Disclaimer: Based on current scientific knowledge; supplier not liable for damage caused by improper use.

