

## Safety Data Sheet (MSDS)

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

### Peracetic Acid Aqueous Solution (C<sub>2</sub>H<sub>4</sub>O<sub>3</sub>)

#### SECTION 1: Identification

##### 1.1 Product Identifiers

- Product Name: Peracetic Acid Aqueous Solution - Product Number: PAA-CAS79210-202711 - Brand: SIGALD - CAS-No.: 79-21-0 - Synonyms: Peroxyacetic Acid; PAA; Acetyl Hydroperoxide - Chemical Family: Organic Peroxide/Carboxylic Acid Derivative

##### 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 & Restrictions

- Identified Uses: Water disinfection (drinking water, sewage); surface disinfection (medical, food contact); food preservation; wastewater treatment (sterilization, deodorization). - Uses Advised Against: Pharmaceutical injection; mixing with reducing agents, ammonia, or strong bases.

#### SECTION 2: Hazards Identification

2.1 GHS Classification: Flammable liquid (Category 3); Skin corrosion/irritation (Category 1B); Eye damage (Category 1); Oxidizing liquid (Category 1); Environmental hazard (Category 1, Aquatic toxicity)

2.2 GHS Label Elements - Hazard Pictogram: (Flammable) + (Corrosion) + (Oxidizer) + (Aquatic hazard) - Signal Word: DANGER - Hazard Statements: H226 (Flammable liquid and vapor); H314 (Causes severe skin burns and eye damage); H270 (May cause or intensify fire; strong oxidizer); H400 (Very toxic to aquatic life) - Precautionary Statements: P210, P260, P280, P301+P330+P331, P304+P340, P305+P351+P338, P391, P501

2.3 Physical/Chemical Hazards: Flammable; strong oxidizer; reacts violently with reducing agents, ammonia, and strong bases; decomposes on heating/shock, releasing oxygen and acetic acid fumes.

2.4 Health Hazards: Severe skin/eye burns; inhalation of vapor irritates respiratory tract (coughing, chest tightness); ingestion causes gastrointestinal burns 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  |
|----------------------|---------------|-----------|--|
| Peracetic Acid (PAA) | 15.0-20.0%    | 79-21-0   | Flamm. Liq. 3; Skin Corros. 1B; Eye Dam. 1; Oxid. Liq. 1; Aquatic Toxicity 1 |
| Acetic Acid (Free)   | ≤ 5.0%        | 64-19-7   | Skin Corros. 1B; Eye Dam. 1  |
| Deionized Water      | Balance       | 7732-18-5 | Non-hazardous  |

## SECTION 4: First Aid Measures

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

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, CO<sub>2</sub>, dry powder. - Unsuitable Media: Direct high-pressure water jet (may splatter flammable liquid). - Special Hazards: Flammable; decomposes on heating to release oxygen (intensifies fire); releases toxic acetic acid/ peroxy fumes. - Firefighter Advice: Wear SCBA and full fire-resistant/corrosion-resistant protective clothing; cool containers with water spray.

## SECTION 6: Accidental Release Measures

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

## SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; use local exhaust ventilation; avoid open flames/sparks; do not mix with incompatible substances. - Storage: Cool, dry, well-ventilated warehouse (≤25°C); keep container tightly closed; avoid direct sunlight and heat; store separately from flammables, reducing agents, and ammonia. - Shelf Life: 6 months (unopened, specified conditions); use within 1 month after opening.

## 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 gloves

(0.15mm+); flame-resistant clothing; half-mask respirator with organic vapor/acid gas cartridges. - Hygiene Measures: Wash hands thoroughly after work; do not eat/drink/smoke in the workplace.

## SECTION 9: Physical and Chemical Properties

Physical State: Liquid; Color: Colorless to pale yellow; Odor: Pungent acetic acid-like odor pH (25°C): 2.0-4.0; Density (25°C): 1.03-1.07 g/cm<sup>3</sup>; Viscosity (25°C): 12-18 mPa·s Boiling Point: 105-110°C; Flash Point: 40°C (closed cup); Solubility: Fully miscible with water/alcohols  
Decomposition Temperature: >60°C; Vapor Pressure (25°C): 2.0 hPa; Flammability Limits: 2.6-15.7% (v/v)

## SECTION 10: Stability and Reactivity

- Stability: Stable under cool, sealed conditions; decomposes on heating, shock, or contact with incompatible substances. - Incompatibilities: Reducing agents, ammonia, strong bases, flammables, metals (Fe, Cu). - Hazardous Decomposition Products: Acetic acid, oxygen, carbon dioxide, peroxy radicals.

## SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 154 mg/kg (15% solution); Dermal (Rabbit, LD<sub>50</sub>): >1000 mg/kg - Skin/Eye Irritation: Severe skin burns and eye damage (GHS 1B/1). - Respiratory Toxicity: Vapor causes mucosal irritation, coughing, and shortness of breath.

## SECTION 12: Ecological Information

- Fish (Zebrafish, LC<sub>50</sub>): 0.15 mg/L (96-hour exposure) - Daphnia (EC<sub>50</sub>): 0.08 mg/L (48-hour exposure) - Biodegradability: Biodegradable but toxic to aquatic organisms at low concentrations.

## SECTION 13: Disposal Considerations

- Product Waste: Neutralize with sodium carbonate/sodium thiosulfate; dispose via licensed hazardous waste facilities. - Packaging Waste: Rinse thoroughly with water; dispose as hazardous waste or recycle if permitted.

## SECTION 14: Transport Information

- UN Number: ADR/RID: UN 2131; IMDG: UN 2131; IATA-DGR: UN 2131 - UN Proper Shipping Name: Peracetic acid, aqueous solution, stabilized (≤40%) - Transport Class: 5.2 (Organic peroxide); Packaging Group: II; Environmental Hazards: Yes (Marine Pollutant) - Special Precautions: Transport in cool, flame-resistant containers; avoid collision, leakage, and sunlight.

## SECTION 15: Regulatory Information

- National Regulations (China): Complies with Hazardous Chemical Safety Management Regulation; meets GB/T 19108-2021. - International Regulations: GHS Rev.9 (Flamm. Liq. 3, Corrosion 1B, Oxid. Liq. 1, Aquatic Toxicity 1); REACH (EU, not in SVHC List); TSCA (US, listed).

## SECTION 16: Other Information



## 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>

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- Revision Date: 20 NOV 2025 - Disclaimer: Based on current scientific knowledge; supplier not liable for damage caused by improper use.

