



# 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, GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Hydrogen Peroxide (35% Industrial Grade)
- Product Number: HP-20260210
- Brand: SIGALD
- CAS-No.: 7722-84-1

Synonyms: Hydrogen dioxide; Peroxide solution

#### 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:** Industrial bleaching agent, disinfection, oxidizing agent, water treatment, chemical synthesis intermediate
- **Uses Advised Against:** Mixing with organic materials/metals without control; use on living tissue (high concentration); storage in unventilated containers

### SECTION 2: Hazards Identification

2.1 GHS Classification: Skin corrosion (Category 1B); Serious eye damage (Category 1); Specific target organ toxicity (single exposure) - respiratory tract (Category 3); Acute aquatic toxicity (Category 1)  
2.2 GHS Label Elements

- Hazard Pictogram: GHS05 (Corrosion), GHS09 (Environment)
- Signal Word: **Danger**
- Hazard Statements: H314 (Causes severe skin burns and eye damage), H335 (May cause respiratory irritation), H400 (Very toxic to aquatic life)
- Precautionary Statements: P260, P264, P280, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338, P310, P273
- 2.3 Physical/Chemical Hazards: Non-combustible; decomposes exothermically at >150°C to oxygen and water; reacts violently with organic materials, metals, strong acids/bases; may cause explosion with concentrated impurities
- 2.4 Health Hazards: Severe skin/eye burns; inhalation of mist causes respiratory irritation; ingestion causes severe gastrointestinal burns; chronic exposure may cause skin sensitization
- 2.5 Environmental Hazards: Very toxic to aquatic life; no bioaccumulation potential; decomposes to water and oxygen in natural environment



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### SECTION 3: Composition/Information on Ingredients

- **Substance/Mixture:** Mixture (Aqueous solution)
- **Main Component:** Hydrogen Peroxide (35.2%, CAS:7722-84-1)
- **Other Components:** Deionized water (64.8%)
- **Formula:** H<sub>2</sub>O<sub>2</sub>
- **Molecular Weight:** 34.01 g/mol
- **Hazardous Ingredients:** Hydrogen Peroxide (corrosive, oxidizing)

### SECTION 4: First Aid Measures

- **Inhaled:** Move to fresh air immediately; keep respiratory tract open. If breathing is difficult, give oxygen; consult a physician immediately.
- **Skin Contact:** Remove contaminated clothing immediately; rinse skin with plenty of running water for at least 15 minutes. Consult a physician immediately for burns.
- **Eye Contact:** Hold eyelids open and rinse thoroughly with running water for at least 20 minutes; do not use eye drops. Consult an ophthalmologist immediately.
- **Swallowed:** Do not induce vomiting; rinse mouth with water. Do not give anything by mouth to an unconscious person; seek medical attention immediately.

### SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, CO<sub>2</sub>, dry powder; cool containers with large amounts of water
- **Special Hazards:** Decomposes at high temperature to release oxygen (supports combustion); violent reaction with combustibles/metals may cause fire/explosion; no hazardous combustion products
- **Firefighter Protection:** Wear positive pressure self-contained breathing apparatus (SCBA) and full chemical protective suit; keep a safe distance from burning containers

### SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear chemical splash goggles, nitrile gloves, chemical protective suit and SCBA; ensure good ventilation; eliminate all ignition sources.
- **Cleanup Methods:** Contain spill with inert material (sand/vermiculite); transfer to sealed HDPE containers for disposal; flush contaminated area with large amounts of water (per local regulations).
- **Environmental Precautions:** Prevent any spillage from entering waterways, sewers or soil; use absorbents to contain aquatic spills immediately.

### SECTION 7: Handling and Storage

- **Handling:** Operate in well-ventilated area with fume hood; use plastic/glass equipment (no metal); avoid contact with skin/eyes; do not mix with organic materials, metals or strong acids/bases.



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- **Storage Conditions:** Cool, well-ventilated warehouse (0-25°C); store in sealed HDPE containers; avoid direct sunlight and high temperature; keep away from combustibles, metals, acids, bases and oxidizers.
- **Incompatibilities:** Organic compounds, metals (Fe, Cu, Mn), strong acids, strong bases, reducing agents, combustible materials
- **Shelf Life:** 12 months (unopened, specified conditions); 3 months after opening (seal tightly)

### SECTION 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** OSHA TWA: 1 ppm (8h); ACGIH TWA: 1 ppm (8h)
- **Engineering Controls:** Local exhaust ventilation; fume hood for all handling; closed transfer system for bulk use
- **PPE:**
  - Eye/Face: Chemical splash goggles + face shield
  - Skin: Chemical resistant nitrile gloves + full protective suit
  - Respiratory: SCBA (spill/leak) + organic vapor respirator (routine handling)
  - Other: Chemical resistant apron + safety shoes

### SECTION 9: Physical and Chemical Properties

- Physical State: Colorless clear liquid (25°C)
- Odor: Slightly pungent
- Solubility: Miscible with water, ethanol; insoluble in non-polar solvents
- pH (25°C): 3.1
- Density: 1.13 g/cm<sup>3</sup> (25°C)
- Boiling Point: 150.2°C (decomposes)
- Melting Point: -0.43°C
- Vapor Pressure: 1.9 kPa (20°C)
- Viscosity: 1.24 mPa·s (25°C)
- Flash Point: Non-combustible
- Decomposition Temperature: >150°C
- Oxidizing Property: Strong oxidizer

### SECTION 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions (0-25°C); decomposes when heated, exposed to light or contact with impurities
- **Hazardous Reactions:** Violent exothermic reaction with organic materials, metals and reducing agents; may cause explosion with concentrated impurities
- **Decomposition Products:** Water (H<sub>2</sub>O), oxygen (O<sub>2</sub>) (no toxic byproducts)
- **Conditions to Avoid:** High temperature, direct sunlight, contact with impurities/metals/organics

### SECTION 11: Toxicological Information

- Oral LD<sub>50</sub> (Rat): 1500 mg/kg (35% solution)
- Dermal LD<sub>50</sub> (Rabbit): 2000 mg/kg (35% solution)



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- Inhalation LC<sub>50</sub> (Rat): 10 mg/m<sup>3</sup>/4h (mist)
- Skin Corrosion: Category 1B (severe burns)
- Eye Damage: Category 1 (permanent damage possible)
- Respiratory Irritation: Category 3 (mist inhalation)

## SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish LC<sub>50</sub>): 20 mg/L/96h (Very toxic, Category 1)
- Aquatic Toxicity (Daphnia EC<sub>50</sub>): 15 mg/L/48h
- Persistence: Fully degradable (decomposes to H<sub>2</sub>O and O<sub>2</sub> in natural environment)
- Bioaccumulative Potential: None (log K<sub>oc</sub>: <0.5)
- Environmental Fate: Rapidly decomposes in water/soil; no long-term environmental impact

## SECTION 13: Disposal Considerations

- **Product Waste:** Dispose via licensed hazardous waste treatment facilities; dilute with large amounts of water before neutralization (with sodium thiosulfate); do not discharge directly to sewer.
- **Packaging Waste:** Rinse thoroughly with water (neutralize first); dispose as hazardous waste if contaminated.
- **Contaminated Material:** All absorbents/cleanup materials are hazardous; seal and dispose via licensed facilities.

## SECTION 14: Transport Information

- UN Number: 2014 (35% aqueous solution)
- Transport Class: 5.1 (Oxidizing substance)
- Packaging Group: II
- Marine Pollutant: Yes (H400)
- **Precautions:** Transport in sealed HDPE containers; avoid direct sunlight/high temperature; separate from combustibles/metals/acids; comply with IMDG/IATA regulations

## SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, GB 13690-2009 (China, Category 8 Corrosive)
- EU SVHC: Not listed; classified as oxidizing/corrosive under EU CLP
- Labeling: Mandatory GHS05/GHS09 pictograms; danger signal word and full hazard statements

## SECTION 16: Other Information

- **Revision Date:** 10 FEB 2026
- **Notes:** Use only plastic/glass equipment; add stabilizers for long-term storage; neutralize spills with sodium thiosulfate before cleanup; avoid all contact with skin/eyes.