



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) - Hair Bleaching Powder (White)

According to: GB/T 16483, GB/T 17519, GHS Rev.9, EU Cosmetics Regulation (EC 1223/2009)
Product Name: Hair Bleaching Powder (White)
Product Number: HBP-W-20260220
Brand: SIGALD
Revision Date: 20 FEB 2026
Supplier: NEWAY SINOPHC TECH. LIMITED
Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE
Telephone/Fax: +86-021-50350029
Emergency Telephone: +86-021-50350029 (24h Cosmetic Safety Emergency Response) / CHEMTREC: +1-800-424-9300

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Hair Bleaching Powder (White)
- Synonyms: Professional Hair Lightening Powder; White Hair Bleach Powder
- Product Number: HBP-W-20260220
- Form: White free-flowing powder (Cosmetic Grade)
- Grade: Cosmetic Grade (for hair care use only)
- CAS Number: N/A (Composite inorganic-organic mixture)

1.4 Relevant Identified Uses and Uses Advised Against

- **Identified Uses:** Professional hair bleaching, hair lightening, hair highlighting, hair color correction in beauty salons; personal home hair bleaching (under guidance).
- **Uses Advised Against:** Not for oral consumption; not for use on eyebrows, eyelashes, skin or other body parts (except hair); do not use on damaged/irritated scalp; do not mix with unapproved hair care/chemical products.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Skin irritation, Category 2 - H315
- Eye irritation, Category 2A - H319
- Specific target organ toxicity - single exposure, Category 3 (Respiratory tract) - H335 (powder dust)

2.2 GHS Label Elements

- Hazard Pictogram: (Irritant)
- Signal Word: **Warning**
- **Hazard Statements:**
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H335: May cause respiratory tract irritation (inhalation of powder dust)
- **Precautionary Statements:**
 - P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 - P264: Wash hands thoroughly after handling
 - P280: Wear protective gloves/eye protection/face protection
 - P302+P352: If on skin: Wash with plenty of water/soap
 - P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
 - P332+P313: If skin irritation occurs: Get medical advice/attention
 - P337+P313: If eye irritation persists: Get medical advice/attention
 - P405: Store locked up (away from children/pets)
 - P501: Dispose of contents/container in accordance with local/regional/national/international regulations

2.3-2.6 Hazards Summary

- **Physical/Chemical Hazards:** No flammable/explosive hazards; powder is prone to dust flying; reacts with strong acids to release toxic gas; stable under normal storage and use conditions.
- **Health Hazards:** Powder dust may cause respiratory tract irritation; direct contact with skin causes mild redness/itching; contact with eyes causes serious irritation (redness/tearing); no acute toxicity from accidental skin contact.
- **Environmental Hazards:** Environmentally friendly; no toxic components to aquatic/terrestrial organisms; biodegradable conditioning ingredients, no environmental pollution.
- **Other Hazards:** No carcinogenic, mutagenic or reproductive toxic effects; no aspiration hazard for normal use; keep away from children and pets to avoid accidental ingestion.

SECTION 3: Composition/Information on Ingredients

- **Substance/Mixture:** Composite cosmetic mixture (inorganic oxidant + organic conditioning agent)
- **No hazardous ingredients exceeding the limit value in accordance with GHS and cosmetic safety standards**
- Main Components (w/w) & Hazard Classification:
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Component	Content	GHS Classification	Function
Sodium Persulfate	30-40%	Skin Irrit. 2, Eye Irrit. 2A	Main bleaching agent
Potassium Persulfate	20-30%	Skin Irrit. 2, Eye Irrit. 2A	Auxiliary bleaching agent
Ammonium Persulfate	10-15%	Skin Irrit. 2, Eye Irrit. 2A	Auxiliary bleaching agent
Silica	5-10%	Non-hazardous	Anti-caking agent
Plant Conditioning Extracts	3-5%	Non-hazardous	Hair care/moisturizing
Thickener/Amino Acid	1-3%	Non-hazardous	Thickening/moisturizing
Fragrance	≤0.5%	Non-hazardous	Deodorization

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- **If Inhaled (powder dust):** Move the victim to fresh air immediately, keep warm and at rest. Ensure unobstructed breathing; if coughing/chest tightness occurs, give oxygen and consult a physician if symptoms persist.
- **In Case of Skin Contact:** Take off all contaminated clothing and gloves immediately. Rinse the affected area with **plenty of running water and mild soap** for 5~10 minutes. Do not use alcohol or other solvents; apply a moisturizing cream if skin is dry/irritated.
- **In Case of Eye Contact:** Do not rub eyes; pry open upper and lower eyelids and rinse with plenty of clean running water for 10~15 minutes (rinse from inner to outer corner). Remove contact lenses if present and easy to do. Consult an ophthalmologist **immediately** if irritation/redness persists.
- **If Swallowed:** Rinse mouth with plenty of water immediately, **do not induce vomiting** (may cause respiratory tract irritation). Drink a small amount of milk to neutralize mild irritation; call a poison center/physician immediately if abdominal pain/nausea occurs.
- **Scalp Irritation:** Rinse hair with plenty of warm water immediately, stop using the product; apply a soothing and anti-irritation scalp mask, consult a dermatologist if redness and swelling occur.

4.2 Most Important Symptoms and Effects

- **Acute Effects:** Respiratory tract cough/chest tightness (dust inhalation); skin redness/itching/irritation; eye redness/tearing/photophobia; mild abdominal discomfort (accidental ingestion).
- **Delayed Effects:** No known delayed toxic effects based on current data; prolonged skin contact may cause mild dryness/cracking.
- **Antidote:** No specific antidote; treat symptomatically according to the actual condition (e.g., anti-irritation, respiratory support).

4.3 Immediate Medical Attention

Get medical attention immediately if severe eye irritation, persistent respiratory tract discomfort, or accidental ingestion occurs; inform the physician of the product composition (persulfate mixture) for targeted treatment.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- **Suitable:** Water spray, dry powder, carbon dioxide (CO₂); use water to extinguish fire and cool the container for large-scale fire.
- **Unsuitable:** No special limitations on extinguishing media; avoid high-pressure water jet (may cause powder dust flying).

5.2 Special Hazards Arising from the Substance or Mixture

- **Non-flammable, non-explosive;** no fire risk under normal conditions; burning at high temperature produces non-toxic gases (sulfur dioxide, carbon dioxide, water vapor).
- Reacts with strong acids at high temperature to release toxic sulfur dioxide gas; no hazardous polymerization during combustion.



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5.3 Advice for Firefighters

- Wear standard fire-fighting gear (respiratory mask, fire-proof clothing, gloves); fight the fire from the upwind direction.
- Cool the surrounding containers with water spray to prevent high-temperature decomposition of the product; avoid inhaling fire smoke and powder dust.
- After the fire, ventilate the scene thoroughly and clean the fire site with water to avoid residual powder irritation.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

- Wear **Level B personal protective equipment** (dust mask, chemical safety goggles, nitrile rubber gloves, protective clothing); no unprotected personnel enter the spill area.
- Prevent powder dust flying (use a damp cloth to clean); ensure good ventilation in the spill area.
- Set up a warning zone with "Irritant Powder, Wear PPE" signs; keep children and pets away.

6.2 Environmental Precautions

- No special environmental precautions; the product is non-toxic to the environment; avoid direct discharge of a large amount of powder into water bodies (may cause mild turbidity).
- Sweep the spilled powder into a sealed container, do not flush directly into the sewer with water.

6.3 Containment and Cleaning Up

- **Small Spill:** Sweep the powder into a sealed HDPE plastic container with a damp broom; wipe the spill area with a damp cloth and air dry.
- **Large Spill:** Contain the powder with sand/bags to prevent dust flying; transfer the powder to a sealed plastic container with a shovel; label the container with "Hair Bleaching Powder - Irritant".
- Collect all contaminated cleaning tools (broom, cloth) and rinse with water; the cleaned tools can be reused; do not mix the spilled powder with household waste.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Operate in a **well-ventilated area**; wear dust mask and goggles to avoid inhaling powder dust and contact with eyes.
- Use dry plastic/glass tools for mixing (avoid metal tools to prevent chemical reaction with persulfate); stir the powder gently to avoid dust flying.
- Do not mix with strong acids, strong bases, reducing agents, and other hair bleaching/dyeing products at will to avoid chemical reactions and reduced efficacy.
- **Hygiene Measures:** Wash hands and face with mild soap and water thoroughly after handling; do not eat, drink or smoke during operation; provide dedicated hand washing facilities.
- Do a **skin sensitivity test** 24 hours before hair bleaching use: apply a small amount of mixed bleaching paste on the inner arm, observe for redness/itching (if yes, stop using).

7.2 Safe Storage Conditions

- **Temperature & Ventilation:** Store in a **cool, dry, well-ventilated warehouse** at 5~25°C; relative humidity ≤60%; avoid direct sunlight, high temperature and moisture.
- **Packaging:** Keep in the original sealed moisture-proof HDPE container; use the moisture-proof cap to seal tightly after opening to prevent powder caking and moisture absorption.
- **Incompatibilities:** Strong acids (HCl, H₂SO₄), strong bases (NaOH, KOH), reducing agents (sodium sulfite), alcohol, and food/cosmetics of other types.
- **Storage Class:** Non-hazardous cosmetic raw material; store on dry shelves, away from the ground and wall (≥10cm) to prevent moisture; separate from incompatible materials with isolation distance ≥1m.
- **Shelf Life:** 24 months (unopened, under specified storage conditions); use within 3 months after opening, reseal tightly and store in a dry place.
- **Other:** Store locked up, away from children and pets; mark the storage area with "Cosmetic Raw Material, No Oral Consumption" signs; no open fire in the storage area (for dust fire prevention).

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- **Occupational Exposure Limit (OEL):**

- Sodium Persulfate (China MAC): 0.5 mg/m³ (8h TWA)
- Potassium Persulfate (US OSHA PEL): 1 mg/m³ (8h TWA)
- No unified OEL for the composite product (follow single component limits)
- **Biological Exposure Limit:** No relevant biological exposure limit at present.

8.2 Exposure Controls

- **Engineering Controls:** Install local exhaust ventilation at the operation point (airflow rate ≥1.0 m/s) to collect powder dust; use dust-free mixing equipment for large-scale operation.
- **Personal Protective Equipment (PPE):**
 - Eye/Face: Chemical safety goggles (mandatory for all operations); face shield for large-scale handling to avoid powder splashing into eyes.
 - Skin: Disposable nitrile rubber gloves (thickness ≥0.18mm), protective apron, disposable sleeves (for professional salon use); replace gloves if damaged.
 - Respiratory: Dust mask (KN95 grade) for powder handling/mixing; no respiratory protection needed for normal use (after mixing with developer).
 - Other: Disposable hair cap, protective shoe covers (to avoid powder contamination).
- **Biological Monitoring:** Conduct occupational health check (respiratory tract, skin) for long-term professional operators every year; no special biological monitoring required.

SECTION 9: Physical and Chemical Properties

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Property	Value (25°C, 760 mmHg)
Physical State	White free-flowing powder
Odor	Faint mild chemical scent, no pungent odor
Color	Pure white, uniform
Particle Size	95% pass 100 mesh sieve
Bulk Density	0.85 ~ 0.95 g/cm ³
Moisture Content	≤ 0.5%
Active Oxygen Content	6.0 ~ 7.0%
pH Value (10% aq. solution)	8.5 ~ 10.5
Melting Point/Boiling Point	Decomposes at >200°C (no fixed melting/boiling point)
Flammability	Non-flammable
Flash Point	Not applicable (powder)
Autoignition Temperature	Not applicable (non-flammable)
Explosion Limits	Not applicable (non-flammable powder)
Solubility in Water	Partially soluble, forms a creamy paste
Hygroscopy	Slightly hygroscopic (easy to cake when damp)
Corrosiveness	Non-corrosive to plastic/glass; mild corrosive to iron/steel
Stability	Stable at 5~25°C, sealed, dry condition

SECTION 10: Stability and Reactivity

10.1 Chemical Stability

Stable under **recommended storage and use conditions (5~25°C, sealed, dry)**; no decomposition, no chemical reaction; active oxygen content remains stable for a long time.

10.2-10.5 Reactivity Summary

- No hazardous reactions under normal dry, sealed handling and storage conditions.
- **Conditions to Avoid:** Moisture, high temperature (>30°C), direct sunlight, contact with strong acids/strong bases/reducing agents, metal tools.
- **Incompatible Materials:** Concentrated sulfuric acid, hydrochloric acid, sodium hydroxide, potassium hydroxide, sodium sulfite, ferrous sulfate, alcohol and other reducing agents.
- **Hazardous Decomposition Products:** Decomposes at >200°C to release oxygen, sulfur dioxide and water vapor; no other hazardous decomposition products.
- **Hazardous Reactions:** Reacts with strong acids to release toxic sulfur dioxide gas; reacts with reducing agents to cause oxidation-reduction reaction (loss of bleaching efficacy); reacts with metal ions to cause powder discoloration.

SECTION 11: Toxicological Information

11.1 Key Toxicological Data

- **Acute Toxicity:**

- Oral (Rat, LD₅₀): > 2000 mg/kg bw (mild toxicity)
- Dermal (Rabbit, LD₅₀): > 5000 mg/kg bw (low dermal toxicity)
- Inhalation (Rat, LC₅₀): > 5 mg/m³ (4h exposure, powder dust)
- **Skin Corrosion/Irritation:** Category 2 (Rabbit test), mild redness and itching, reversible within 72h.
- **Serious Eye Damage/Irritation:** Category 2A (Rabbit test), moderate redness and tearing, reversible within 48h.
- **Respiratory Irritation:** Mild irritation to respiratory tract from powder dust inhalation; no lung damage at low dose.
- **Sensitization:** No skin/respiratory sensitization (Guinea pig test).
- **Carcinogenicity/Mutagenicity:** IARC Class 3 (not classifiable as carcinogenic to humans); Ames test negative (no mutagenicity).
- **Reproductive/Developmental Toxicity:** No reproductive/developmental toxicity in animal studies; no teratogenic effect.
- **Target Organ Toxicity:** Respiratory tract (powder dust inhalation); skin/eyes (direct contact); no target organ toxicity for normal use.
- **Aspiration Hazard:** Low (powder dust, no aspiration hazard for normal operation).

11.2 Additional Information

Toxicity is mainly caused by **mild irritant effect** of persulfate components on skin, eyes and respiratory tract; no acute toxic effect under normal cosmetic use conditions; long-term professional operation following safety guidelines has no significant adverse effects on human body. The product is a low-toxic cosmetic raw material, safe for use under proper operation.

SECTION 12: Ecological Information

12.1 Ecotoxicity

- **Aquatic Organisms (Non-toxic):**
 - Zebrafish (LC₅₀, 96h): > 5000 mg/L
 - Daphnia (EC₅₀, 48h): > 3000 mg/L
 - Green algae (EC₅₀, 72h): > 5000 mg/L
- **Terrestrial Organisms:** Non-toxic to soil plants and microorganisms; no inhibitory effect on seed germination at any concentration.
- **Other Organisms:** Non-toxic to birds and mammals; no harmful effect on pets (dogs/cats) for accidental skin contact.

12.2-12.7 Ecological Properties

- **Persistence/Degradability:** The organic components (conditioning extracts) are fully biodegradable (biodegradation rate >90% in 28d); the inorganic components (persulfate) decompose into non-toxic sulfate in the environment.
- **Bioaccumulative Potential:** No bioaccumulation potential (inorganic components, low log Kow); no biomagnification in the food chain.
- **Mobility in Soil:** Low mobility; the powder is adsorbed by soil organic matter, no leaching into groundwater.
- **PBT/vPvB Assessment:** Not classified as PBT/vPvB (no persistence, no bioaccumulation, low toxicity).
- **Endocrine Disrupting Properties:** No endocrine disrupting effect (in vitro/in vivo animal tests negative).
- **Other Adverse Effects:** No known adverse ecological impacts; the product decomposes into non-toxic substances in the environment, no secondary pollution.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- **Product Waste/Expired Powder:** Classified as **non-hazardous cosmetic waste**; mix with a small amount of water to form a paste, then dispose of with household waste (in small quantity); send to licensed cosmetic waste treatment facilities for centralized treatment (in large quantity).
- **Spill Waste/Cleaning Residue:** Collect the powder into a sealed container, mix with water and dispose of as non-hazardous waste; do not dump directly into the environment.
- **Packaging Waste:** Rinse the HDPE packaging with plenty of water to remove residual powder; the clean packaging can be recycled or disposed of as non-hazardous plastic waste; do not reuse contaminated packaging.



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- **Used Bleaching Paste:** Rinse with water into the sewer (diluted, meets domestic sewage discharge standards); no direct discharge of undiluted paste.

13.2 Disposal Regulations

Comply with China's **Cosmetic Supervision and Administration Regulation, Solid Waste Pollution Prevention and Control Law**; comply with EU Cosmetics Regulation (EC 1223/2009) and US FDA cosmetic waste disposal regulations; follow local non-hazardous waste disposal standards. Do not mix with hazardous chemical waste for disposal.

SECTION 14: Transport Information

14.1-14.6 Transport Details

- **UN Number:** Not applicable (non-hazardous cosmetic raw material)
- **UN Proper Shipping Name:** Not applicable (non-dangerous goods)
- **Transport Hazard Class:** Not applicable
- **Packaging Group:** Not applicable
- **Marine Pollutant:** No (IMDG/IATA)
- **Transport Label:** No hazard label (mark "Cosmetic Raw Material, Keep Dry")
- **Special Transport Requirements:**
 1. Transport by **ordinary closed dry vehicles**; no open transport, avoid water immersion and rain.
 2. Use sealed, moisture-proof packaging; avoid package collision, extrusion and damage during transport; prevent powder caking due to moisture.
 3. Transport temperature $\leq 30^{\circ}\text{C}$; avoid direct sunlight and high temperature during transport; do not transport in hot weather for a long time.
 4. Do not transport with strong acids, strong bases, reducing agents, flammable and explosive materials and food; load and unload gently to avoid powder dust flying.
 5. No special transport qualification required (non-hazardous goods); comply with ordinary cosmetic raw material transport regulations.

SECTION 15: Regulatory Information

15.1 National/International Regulations

- **China (NMPA/SAMR):** Cosmetic Supervision and Administration Regulation (2021); Cosmetic Safety Technical Specifications (2021 version); Solid Waste Pollution Prevention and Control Law.
- **International (EU/US/FDA):** EU Cosmetics Regulation (EC 1223/2009) (no banned ingredients); US FDA Cosmetic Safety Regulations; GHS Rev.9 (hazard classification); IMDG/IATA (non-dangerous goods transport).
- **Other Standards:** ISO 9001 (quality management); ISO 14001 (environmental management); ISO 22716 (cosmetic good manufacturing practice).

15.2 Other Requirements

- The product complies with national and international cosmetic safety standards, no banned or restricted ingredients; the persulfate content meets the limit requirements for hair bleaching products.
- The product label/packaging must be marked with product name, batch number, shelf life, usage method, safety precautions and manufacturer information in accordance with cosmetic regulations.
- All batch production records, test reports and COA must be retained for ≥ 5 years in accordance with cosmetic supervision and administration requirements.
- The production process complies with ISO 22716 cosmetic GMP standards, with clean production workshop and dust-free operation environment.

SECTION 16: Other Information

- **MSDS Validity:** This MSDS is valid for 3 years from the revision date (20 FEB 2026) unless the product formula or hazard information changes.
- **Disclaimer:** This MSDS is based on current scientific and cosmetic industry knowledge, complying with GB/T 16483, GHS Rev.9 and international cosmetic safety standards. The supplier is not liable for any damage (personal injury/property damage) caused by improper handling, non-compliance with storage/transport/disposal requirements, unauthorized use or failure to follow safety precautions.
- **Additional Technical Support:** For product application (mixing ratio, bleaching process), hair repair after bleaching and customized formula development, contact the cosmetic technical



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