



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: Talc Powder (Asbestos-Free)
- Product Number: TP-20260221
- Brand: SIGALD
- CAS-No.: 14807-96-6

Synonyms: Talc; Hydrated Magnesium Silicate; Talcum Powder (Asbestos-Free)

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:** Plastic/rubber filler, coating/paint additive, papermaking sizing agent, cosmetic raw material, ceramic glaze, pharmaceutical excipient (pharmaceutical grade only)
- **Uses Advised Against:** Use as baby powder without cosmetic/pharmaceutical certification; inhalation of large amounts of dust; use in high-acid systems without pH adjustment

SECTION 2: Hazards Identification

2.1 GHS Classification: Skin irritation (Category 2); Serious eye irritation (Category 2A); Specific target organ toxicity (single exposure) - respiratory tract (Category 3); Specific target organ toxicity (repeated exposure) - respiratory tract (Category 3)

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H335 (May cause respiratory irritation), H373 (May cause damage to respiratory tract through prolonged or repeated exposure)
- Precautionary Statements: P264, P280, P302+P352, P305+P351+P338, P332+P313, P337+P313, P261, P342+P311
- 2.3 Physical/Chemical Hazards: Non-combustible; non-explosive; reacts with strong acids (HCl, H₂SO₄) to release silicic acid; no hazardous physical properties; dust may form explosive mixture with air (high concentration)
- 2.4 Health Hazards: Prolonged skin contact causes mild irritation; eye contact causes serious irritation; inhalation of dust causes respiratory tract irritation (cough, shortness of breath); prolonged dust inhalation causes chronic

respiratory tract damage; no acute oral toxicity
2.5 Environmental Hazards: Non-toxic to aquatic life; low water solubility; no bioaccumulation; no adverse environmental effects

SECTION 3: Composition/Information on Ingredients

- **Substance/Mixture:** Pure Substance (Natural mineral)
- **Main Component:** Talc Powder (99.9%, CAS:14807-96-6) - $3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$
- **Impurities:** SiO_2 , MgO , trace $\text{Fe}_2\text{O}_3/\text{Al}_2\text{O}_3$ (non-hazardous)
- **Hazardous Ingredients:** Asbestos (Negative, non-detected)
- **Molecular Weight:** 379.27 g/mol

SECTION 4: First Aid Measures

- **Inhaled:** Move to fresh air immediately; keep respiratory tract open. If coughing or shortness of breath occurs, sit upright and give oxygen if needed; consult a physician for prolonged symptoms.
- **Skin Contact:** Rinse skin with plenty of running water and mild soap for 5 minutes; remove contaminated clothing and wash before reuse. Apply moisturizer if dryness/irritation occurs.
- **Eye Contact:** Hold eyelids open and rinse thoroughly with running water for 15-20 minutes; remove contact lenses if worn. Consult an ophthalmologist **immediately** even if no irritation is felt (prevent fine powder from remaining in eyes).
- **Swallowed:** Rinse mouth with water; do not induce vomiting (low toxicity, insoluble). Consult a physician only if gastrointestinal discomfort (abdominal pain, constipation) occurs.

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, CO_2 , dry powder (for surrounding fire only)
- **Special Hazards:** Non-combustible; no hazardous combustion products; high-concentration dust may form explosive mixture with air (ignition source required); reacts with acid fire extinguishers to release silicic acid
- **Firefighter Protection:** Wear standard fire-fighting gear + dust/respiratory mask; avoid inhalation of dust; cool containers with water spray to prevent dust dispersion

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear chemical splash goggles, nitrile gloves, N95 dust mask and lab coat for all spills; ensure good ventilation; eliminate all ignition sources (for high-concentration dust).
- **Containment & Cleanup:** Sweep up powder with a damp broom (to prevent dust dispersion) and transfer to sealed HDPE containers; use a vacuum cleaner with dust collection system for large spills; wipe residual powder with a damp cloth.
- **Environmental Precautions:** No special environmental precautions; the product is non-toxic to aquatic/soil organisms; sweep up spilled powder from soil/water for recycling/disposal.

SECTION 7: Handling and Storage

- **Handling:** Operate in well-ventilated area with local exhaust ventilation; use dust collection system for bulk processing; avoid dust generation (use damp processing); no eating/drinking/smoking in the work area; wash hands thoroughly after handling.
- **Storage Conditions:** Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); store in sealed HDPE bags/coated woven bags; avoid direct sunlight and high humidity; keep away from strong acids and food/medicines (for industrial grade).
- **Incompatibilities:** Strong mineral acids (HCl , H_2SO_4 , HNO_3), high humidity (causes caking), strong alkalis ($\text{pH} > 12$)
- **Shelf Life:** 36 months (unopened, under specified storage conditions); 12 months after opening (seal tightly and keep dry to prevent caking)

SECTION 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** OSHA TWA (total dust): $2 \text{ mg}/\text{m}^3$; ACGIH TWA (respirable dust): $1 \text{ mg}/\text{m}^3$; NIOSH REL: $2 \text{ mg}/\text{m}^3$ (8h TWA)
- **Engineering Controls:** Local exhaust ventilation (≥ 20 air changes/hour); dust collection system (efficiency $\geq 99\%$); closed transfer system for bulk powder handling; wet processing to reduce dust.
- **PPE:**
 - Eye/Face: Chemical splash goggles + face shield (mandatory for bulk handling)
 - Skin: Chemical-resistant nitrile gloves + full protective suit + safety shoes
 - Respiratory: N95 dust mask (routine handling); powered air-purifying respirator (PAPR) for bulk processing/spills
 - Other: Dust-proof cap, disposable mask, protective apron

SECTION 9: Physical and Chemical Properties

- Physical State: White fine crystalline powder (25°C)
- Odor: Odorless
- Solubility: Insoluble in water/ethanol/ether; soluble in strong acids (reacts)
- pH Value (5% aq. suspension): 8.0-9.5 (mild alkaline)
- Density: $2.75 \text{ g}/\text{cm}^3$ (25°C); bulk density 0.8-1.0 g/cm^3
- Melting Point: 1530°C (decomposes)
- Boiling Point: N/A (decomposes)
- Flash Point: Non-combustible
- Autoignition Temperature: N/A
- Viscosity: N/A (solid powder)
- Particle Size (D50): $4.1 \mu\text{m}$ (industrial grade)
- Oil Absorption Value: 30.2 g/100g
- Whiteness (CIE): 97.2%
- Hygroscoy: Slight (caking in high humidity)
- Flammability: Non-combustible



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- Explosive Limits: 10-20 g/m³ (dust in air, ignition source required)

SECTION 10: Stability and Reactivity

- **Stability:** Chemically stable under normal storage and use conditions ($\leq 30^{\circ}\text{C}$, dry); slight caking in high humidity (no degradation); no polymerization
- **Hazardous Reactions:** Reacts with strong acids to release silicic acid (H_2SiO_3); no other hazardous reactions under normal use; high-concentration dust forms explosive mixture with air (ignition source required)
- **Decomposition Products:** Magnesium oxide (MgO), silicon dioxide (SiO_2) (at $>1500^{\circ}\text{C}$); silicic acid (H_2SiO_3) (with strong acids)
- **Conditions to Avoid:** High humidity ($\geq 80\%$ RH), strong acids, dust generation (high concentration), open flame (for dust-air mixture)

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): >10000 mg/kg (very low acute toxicity, insoluble)
- Dermal LD₅₀ (Rabbit): >10000 mg/kg (mild skin irritation only)
- Inhalation LC₅₀ (Rat): >50 mg/m³/4h (dust, mild respiratory irritation)
- Skin Irritation: Category 2 (mild reversible irritation; Rabbit, 4h exposure)
- Eye Irritation: Category 2A (serious reversible irritation; Rabbit, 24h exposure)
- Respiratory Toxicity: Prolonged inhalation causes chronic respiratory tract damage (Category 3, repeated exposure)
- Carcinogenicity: IARC Group 3 (Unclassifiable, asbestos-free); no carcinogenic effect for pure talc powder
- Mutagenic/Reproductive Toxicity: No mutagenic or reproductive toxic effects (asbestos-free)

SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish LC₅₀): >5000 mg/L/96h (non-toxic)
- Aquatic Toxicity (Daphnia EC₅₀): >5000 mg/L/48h (non-toxic)
- Persistence: Non-biodegradable (inorganic mineral); low water solubility
- Bioaccumulative Potential: None (log K_{oc}: 1.2; no bioaccumulation in food chain)
- Environmental Fate: Insoluble in water; sinks in aquatic environment; binds to soil organic matter; no adverse effects on soil/aquatic organisms
- Other Adverse Effects: No known environmental hazards; can be used as a soil conditioner (mild alkaline)

SECTION 13: Disposal Considerations

- **Product Waste:** Dispose via licensed waste treatment facilities; unspoiled product can be recycled for industrial use; contaminated powder can be landfilled (non-toxic) or incinerated (at $>1500^{\circ}\text{C}$).
- **Packaging Waste:** Rinse thoroughly with water; recycle as non-hazardous plastic/textile waste; no special disposal required.



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- **Contaminated Material:** All cleanup materials are non-hazardous; dispose as ordinary industrial waste; no hazardous waste treatment required.

SECTION 14: Transport Information

- UN Number: Not dangerous goods
- Transport Hazard Class/Packaging Group: N/A
- Marine Pollutant: No
- **Precautions:** Transport by ordinary vehicles; avoid collision, rain and high humidity; store in sealed packaging during transport; prevent dust dispersion; do not transport with strong acids and food/medicines; comply with IMDG/IATA non-hazardous goods regulations.

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, GB 13690-2009 (China); not classified as a hazardous chemical (asbestos-free)
- EU SVHC: Not listed; meets industrial mineral regulatory standards; asbestos-free certification available upon request
- Labeling: Mandatory GHS07 hazard label; additional "Dust hazard - respiratory irritation" and "Asbestos-free" labels; cosmetic/pharmaceutical grade with corresponding product certification labels

SECTION 16: Other Information

- **Revision Date:** 21 FEB 2026
- **Notes:** Mandatory dust control for all handling operations; use dust collection system and wet processing to reduce dust; regular medical check-up for long-term operators (respiratory function); ensure asbestos-free for cosmetic/pharmaceutical use; store in dry environment to prevent caking.

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