



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: Paraffin Wax
- Product Number: PW-20260220
- Brand: SIGALD
- CAS-No.: 8002-74-2

Synonyms: Paraffin; Petroleum Wax; Alkane Wax (C20-C40)

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:** Rubber/plastic mold release agent, candle production, coating/paint additive, papermaking sizing agent, cosmetic raw material, thermal insulation material
- **Uses Advised Against:** Use as food contact material without food-grade certification; heating above 200°C in unventilated areas; use as a fuel for open flame combustion

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); Chronic aquatic toxicity (Category 2)
2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H335 (May cause respiratory irritation), H412 (Harmful to aquatic life with long-term effects)
- Precautionary Statements: P264, P280, P302+P352, P305+P351+P338, P332+P313, P337+P313, P273, P391
2.3 Physical/Chemical Hazards: Combustible solid; melts when heated, molten wax may cause thermal burns; combustion produces carbon monoxide (toxic); no explosion risk; no hazardous reactions under normal use
2.4 Health Hazards: Prolonged skin contact causes mild irritation; eye contact causes serious irritation; inhalation of heated wax fumes causes respiratory tract irritation; no acute oral toxicity (low solubility in water)
2.5 Environmental Hazards: Harmful to aquatic life with long-term effects; low water solubility; accumulates in sediment; non-biodegradable in natural environment

SECTION 3: Composition/Information on Ingredients

- **Substance/Mixture:** Mixture (Petroleum-derived alkane mixture)
- **Main Component:** Paraffin Wax (99.8%, CAS:8002-74-2) - $C_n H_{2n+2}$ (n=20-40)
- **Other Components:** Mineral oil (0.2%, non-hazardous)
- **Hazardous Ingredients:** None (hazards from physical effects/combustion products only)

SECTION 4: First Aid Measures

- **Inhaled:** Move to fresh air immediately; keep respiratory tract open. If coughing or irritation persists, drink warm water and consult a physician.
- **Skin Contact:** Rinse skin with plenty of running water for 5 minutes; remove contaminated clothing. For molten wax burns, rinse with cold water for 15 minutes and seek medical attention for blistering.
- **Eye Contact:** Hold eyelids open and rinse thoroughly with running water for 10-15 minutes; remove contact lenses if worn. Consult an ophthalmologist if redness or blurriness remains.
- **Swallowed:** Rinse mouth with water; do not induce vomiting (low toxicity). Consult a physician only if gastrointestinal discomfort (nausea, abdominal pain) occurs.

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Water spray (cool containers only), foam, CO₂, dry powder
- **Special Hazards:** Combustible; molten wax spreads fire; combustion produces toxic carbon monoxide and soot; no explosive decomposition
- **Firefighter Protection:** Wear standard fire-fighting gear + respiratory protection (against CO); keep a safe distance; cool containers with water spray to prevent melting and fire spread

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear safety goggles, nitrile gloves and dust mask for solid spills; wear heat-resistant gloves for molten wax spills; ensure good ventilation.
- **Containment & Cleanup:** Sweep up solid flakes/pellets with inert material (sand/vermiculite) and transfer to sealed HDPE containers; absorb molten wax with sand/absorbent pads, cool and dispose of as solid waste; wipe residual wax with organic solvent (ethanol).
- **Environmental Precautions:** Prevent spills from entering waterways/soil; collect contaminated soil/sediment for disposal if aquatic spill occurs.

SECTION 7: Handling and Storage

- **Handling:** Operate in well-ventilated area; use heat-resistant equipment for melting (80-100°C); avoid heating above 200°C; prevent molten wax contact with skin/eyes; no open flame near melting equipment.
- **Storage Conditions:** Cool, dry, well-ventilated warehouse ($\leq 30^\circ\text{C}$); store in sealed HDPE bags/metal drums; avoid direct sunlight and heat sources (heaters, steam pipes); keep away from oxidizers and open flame.
- **Incompatibilities:** Strong oxidizers (KMnO₄, H₂O₂), strong acids, open flame, high temperature ($>200^\circ\text{C}$)



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- **Shelf Life:** 24 months (unopened, under specified storage conditions); 6 months after opening (seal tightly to prevent oil loss)

SECTION 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** OSHA TWA (total dust): 15 mg/m³; ACGIH TWA (respirable dust): 5 mg/m³
- **Engineering Controls:** Basic ventilation; local exhaust ventilation for melting operations; dust collection system for solid powder processing
- **PPE:**
 - Eye/Face: Safety goggles (routine handling); face shield (melting operations)
 - Skin: Nitrile gloves (solid); heat-resistant gloves (molten wax)
 - Respiratory: Dust mask (solid); organic vapor respirator (melting fumes)
 - Other: Lab coat/coverall, safety shoes

SECTION 9: Physical and Chemical Properties

- Physical State: White solid flake/pellet (25°C); clear liquid (≥60°C)
- Odor: Odorless (solid); mild petroleum odor (molten)
- Solubility: Insoluble in water/ethanol; soluble in benzene, toluene, mineral oil
- pH: N/A (solid)
- Density: 0.90-0.92 g/cm³ (solid); 0.80-0.82 g/cm³ (molten)
- Melting Point: 60.5°C (drop point)
- Boiling Point: >300°C (decomposes)
- Flash Point: 190°C (Closed Cup)
- Autoignition Temperature: 245°C
- Viscosity: 10-15 mPa·s (80°C, molten)
- Flammability: Combustible solid (NFPA Class IV)
- Volatility: Low (solid); moderate (molten fumes)
- Hardness: 2-3 Mohs (solid)

SECTION 10: Stability and Reactivity

- **Stability:** Chemically stable under normal storage and use conditions (≤30°C); no degradation or oil loss if sealed
- **Hazardous Reactions:** No hazardous reactions under normal use; combustion with open flame/oxidizers produces CO; no polymerization
- **Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO₂), soot (at >200°C/combustion)
- **Conditions to Avoid:** High temperature (>200°C), direct sunlight, open flame, contact with strong oxidizers

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): >5000 mg/kg (low acute toxicity)
- Dermal LD₅₀ (Rabbit): >5000 mg/kg (mild skin irritation only)



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- Inhalation LC₅₀ (Rat): >10 mg/m³/4h (molten fumes, mild respiratory irritation)
- Skin Irritation: Category 2 (mild reversible irritation; Rabbit, 4h exposure)
- Eye Irritation: Category 2A (serious reversible irritation; Rabbit, 24h exposure)
- Carcinogenicity: IARC Group 3 (Unclassifiable); no mutagenic/reproductive toxic effects

SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish LC₅₀): >1000 mg/L/96h (acute, non-toxic)
- Chronic Aquatic Toxicity (Daphnia EC₅₀): 500 mg/L/21d (Category 2, harmful)
- Persistence: Non-biodegradable (alkane mixture); low water solubility
- Bioaccumulative Potential: Moderate (log K_{oc}: 5.0-6.0; accumulates in aquatic organism fat)
- Environmental Fate: Sinks in water; accumulates in sediment; no degradation in natural environment; may bioaccumulate in food chain

SECTION 13: Disposal Considerations

- **Product Waste:** Dispose via licensed waste treatment facilities; incinerate at high temperature (>800°C) with flue gas treatment (for CO/soot); unspoiled product can be recycled for industrial use.
- **Packaging Waste:** Rinse thoroughly with organic solvent (toluene); recycle as non-hazardous plastic/metal waste; no special disposal required.
- **Contaminated Material:** All cleanup materials are non-hazardous; dispose as ordinary industrial waste (molten wax burns material as hazardous waste).

SECTION 14: Transport Information

- UN Number: Not dangerous goods (solid); UN 3175 (molten, combustible liquid)
- Transport Hazard Class/Packaging Group: N/A (solid); Class 9 (molten)
- Marine Pollutant: Yes (H412, chronic aquatic toxicity)
- **Precautions:** Transport solid paraffin by ordinary vehicles; avoid collision, direct sunlight and heat sources; transport molten paraffin in insulated tanks with temperature control (80-100°C); comply with IMDG/IATA regulations for molten transport.

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, GB 13690-2009 (China); not classified as a hazardous chemical (solid)
- EU SVHC: Not listed; meets industrial chemical regulatory standards
- Labeling: Mandatory GHS07 hazard label; additional "Combustible" and "Chronic aquatic toxicity" labels for molten state

SECTION 16: Other Information

- **Revision Date:** 20 FEB 2026
- **Notes:** Avoid heating above 200°C to prevent toxic fume release; use dust collection system for solid powder processing; wear heat-resistant PPE for melting operations; store away from open flame and oxidizers; no environmental release of waste wax.