

# Material Safety Data Sheet

## Wax MSDS

### Section 1: Chemical Product and Company Identification

<b>Product Name:</b> Wax <b>Catalog Codes:</b> 6617580035 <b>CAS#:</b> 8002-74-2 <b>Chemical Name:</b> Paraffin <b>Synonym:</b> Paraffin Wax <b>Chemical Formula:</b> C <sub>36</sub> H <sub>74</sub> <b>Relative Molecular Weight:</b> 360-490	<b>Contact Information:</b>  CARAT NEDERLAND B.V. ADD.: NIKKELSTRAAT 18, NL-4823 AB BREDA - NETHERLANDS  <b>TEL:</b> +31(0)76 5 422 422
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### Section 2: Composition and Ingredients

<b>Composition:</b>	
<b>Major Composition:</b>	Alkane mixtures composed of carbon and hydrogen with various molecular weight.
<b>Physical State and Appearance:</b>	White, odorless, tasteless crystal
<b>Major Applications:</b>	Used in the synthesis of fat acid and high level alcohols, and in the production of leather, match, candle, wax paper, crayon, waterproofing agents, ointment and electrical insulating materials.
<b>Toxicological Data on Ingredients:</b> Not applicable.	

### Section 3: Hazards Identification

<b>Potential Acute Health Effects:</b> No hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
<b>Potential Chronic Health Effects:</b> The inhalation of paraffin wax vapor of high concentration will lead to headache, dizziness, cough, appetite decrement, vomiting and diarrhea.

### Section 4 : First Aid Measures

<b>Eye Contact:</b> Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin Contact:</b> Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:**

It is very difficult to inhale

**Serious Inhalation:** Not available.

**Ingestion:**

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-ignition Temperature:** 245°C (473°F)

**Flash Points:** CLOSED CUP:  $\leq$  220°C

**Flammable Limits:** Not available.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:**

Slightly flammable to flammable in presence of heat.

Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder, carbon dioxide, and sand.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

### Section 6: Accidental Release Measures

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### Section 7: Handling and Storage

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Cake)

**Odor:** Odorless.

**Taste:** Not available.

**Molecular Weight:** 350-480

**Color:** +26

**Oil Content:** < 1%

**Boiling Point:** > 370 °C (

**Melting Point:** 60-62 °C

**Critical Temperature:** Not available.

**Needle Penetration:** <18

**Vapor Density:** Not available.

**Volatility:** Not available.

**Vapor Pressure:** Not applicable.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Insoluble in cold water, hot water, soluble hot benzene、 gasoline、 hot ethanol and chloroform etc..

### Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:**

LD50: Not available.

LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

Skin: Solid material is not expected to be an irritant, but it may cause mild skin irritation.

Eyes: Solid materials is not expected to be an irritant, but it may cause mild eye irritation. Vapors from molten wax may cause eye irritation.

Inhalation: Low hazard. Paraffin wax fumes may be irritating to the eyes, nose and throat. and may also produce nausea. 'However, vapors emitted from molten wax are expected to have a low degree of irritation by inhalation.

Ingestion: Ingested paraffin wax is not absorbed, and is considered nontoxic. Ingestion of large amounts may have a mild laxative effect and cause diarrhea.

Chronic Potential Health Effects:

Skin: Poor personal hygiene can lead to wax plugging of skin follicles and producing so-called "Wax Boils".

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available

### Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with government and local environmental control regulations.

### Section 14: Transport Information

**Packaging Classification:**Z01

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

### Section 15: Regulatory Information

The safe usage, production, storage, transportation and loading or unloading of hazardous chemicals are subject to **Regulations on Safety Management of Hazardous Chemicals** (promulgated by the State Council of P.R.China on 02-17-1987), **Implementation Details on the Regulations on Safety Management of Hazardous Chemicals** (promulgated by Decree No. 677 of the Ministry of Chemical Industry and the Ministry of Labor in 1992), and **Regulations on Workplace Safety of Using Chemicals** (promulgated by Decree No.423 of the Ministry of Labor in 1996), etc..

**Protective Equipment:**

Gloves.

Lab coat.

Dust respirator. Be sure to use an

approved/certified

respirator or equivalent.

Safety glasses.

### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.