

SHELLAC FLAKES MATERIAL SAFETY DATA SHEET

I. PRODUCT & COMPANY IDENTIFICATION

Product Identification: Shellac flakes
CAS#: 9000-59-3
Synonym: Shellac flakes
Chemical Name: Not available.
Chemical Formula: Not available.

Supplier: Intaglio Printmaker
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62 Southwark Bridge Road
London
SE1 0AT
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SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Name: Shellac flakes
CAS #: 9000-59-3
% by Weight: 100
Toxicological Data on Ingredients: Not applicable.

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects:

- Hazardous in case of ingestion.
- Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

- Hazardous in case of skin contact (irritant), of eye contact (irritant).

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

SECTION 4: FIRST AID MEASURES

- **Eye Contact:** 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.
- **Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
- **Serious Skin Contact:** Not available.
- **Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, Give oxygen. Get medical attention.
- **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:** Not available.
- **Flash Points:** Not available.
- **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. Slightly explosive in presence of open flames and sparks.
- **Fire Fighting Media and Instructions:**
 - SMALL FIRE: Use DRY chemical powder.
 - LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- **Special Remarks on Fire Hazards:** When heated to decomposition it emits acrid smoke and fumes.
- **Special Remarks on Explosion Hazards:** Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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.
- **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.

EXPOSURE LIMITS

- TWA: 10 (mg/m³) [Canada] Inhalation Total.
- TWA: 15 (mg/m³) from OSHA (PEL) [United States]

INHALATION TOTAL.

- TWA: 5 (mg/m³) from OSHA (PEL) [United States]

INHALATION RESPIRABLE.

- Consult local authorities for acceptable exposure limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state and appearance:** Solid. (Powdered solid or crushed into pieces.)
- **Odour:** Odourless.
- **Taste:** Not available.
- **Molecular Weight:** Not available.
- **Color:** Yellowish-brown.
- **pH (1% soln/water):** Not available.
- **Boiling Point:** Not available.
- **Melting Point:** 75°C (167°F)
- **Critical Temperature:** Not available.
- **Specific Gravity:** 1.035 - 1.140 (Water = 1)
- **Vapour Pressure:** Not applicable.
- **Vapour Density:** Not available.
- **Volatility:** Not available.
- **Odour Threshold:** Not available.
- **Water/Oil Dist. Coeff.:** Not available.
- **Ionicity (in Water):** Not available.
- **Dispersion Properties:** Not available.
- **Solubility:** Not available.

SECTION 10: STABILITY AND REACTIVITY DATA

- **Stability:** The product is stable.
- **Instability Temperature:** Not available.
- **Conditions of Instability:** Excessive heat, ignition sources (flames, sparks, etc.)
- **Incompatibility with various substances:** Not available.
- **Corrosivity:** Non-corrosive in presence of glass.
- **Special Remarks on Reactivity:** No specific information available.
- **Special Remarks on Corrosivity:** Not available.
- **Polymerization:** Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

- **Routes of Entry:** Inhalation. Ingestion.
- **Toxicity to Animals:** Not Available
- **LD50:** Not available.
- **LC50:** Not available.
- **Chronic Effects on Humans:** Not available.
- **Other Toxic Effects on Humans:** Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), 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:** Not available.
- **Potential Health Effects:** Skin and Eyes: Dust may cause moderate skin or eye irritation with repeated or prolonged contact.
- **Inhalation:** Nuisance dust. May cause respiratory tract irritation.
- **Ingestion:** May cause gastrointestinal tract irritation. The toxicological properties of this substance have not been fully investigated.

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 federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

- **DOT Classification:** Not a DOT controlled material
- **Identification:** Not applicable.
- **Special Provisions for Transport:** Not applicable.

SECTION 15: OTHER REGULATORY INFORMATION

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations.

Safety Phrases:

S24/25 - Avoid contact with skin and eyes.

S36 - Wear suitable protective clothing.

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

16. OTHER INFORMATION

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