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Avobenzone

Material Safety Data Sheet (MSDS)

1. Product Identification

Product Name: Avobenzone
INCI Name: Avobenzone
Chemistry: Organic chemical, Butyl-methoxydibenzoylmethane
CAS Number: 70356-09-1
EINECS Number: 274-581-6

2. Physical & Chemical Properties

Melting Point:	81 to 86 °C (177.8 to 186.8 °F)
Boiling Point:	not applicable
Non-Volatiles:	not available
Viscosity:	not applicable
Specific Gravity:	not available
Solubility in water:	insoluble
Refractive Index:	no data available
Appearance & Odor:	Off white to yellowish, crystalline powder with weak characteristic odor.

3. Stability & Reactivity

Chemical Stability: Stable under normal conditions of storage and handling.
Conditions of Instability: Heating.
Incompatible Materials: Avoid contact with metals, metallic salts and formaldehyde.
Hazardous Decomposition Products: Not available.
Hazardous Polymerization: Will not occur.

4. Handling & Storage

Handling precautions: Avoid breathing dust. Avoid generating dust, Wash thoroughly after handling.
Storage Precautions: Store in original sealed containers, protected form light.
Other Precautions: none specified

5. Accidental Release Measures

Small Spill and Leak: Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.
Large Spill and Leak: Use appropriate tools to put the spilled material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.
Spill Kit Information: No specific spill kit required for this product.

6. Exposure Controls & Personal Protection

Respiratory Protection: Dust respirator. Ensure an MSHA/NIOSH-approved respirator or equivalent is used.
Protective Clothing: Use splash goggles, synthetic apron and nitrile gloves.
Other Protective Measures: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

7. Hazards Identification

Eye: May cause eye irritation. Symptoms include: itching and redness after contact.
Skin: May cause mild skin irritation. Symptoms include: itching and redness after contact.
Inhalation: May cause respiratory tract irritation. Symptoms include: coughing, wheezing or shortness of breath when inhaled.
Ingestion: Not an intended route of exposure. Not believed to be toxic.
Cancer: This material is not known to cause cancer in animals or humans.
Target Organs: No data available.
Developmental: No data available.
Pre-existing Medical Conditions: Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.
Likely routes of exposure: Skin, eyes, lungs.

8. First Aid Measures

Eyes: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If symptoms develop, seek medical attention.
Skin: Wash with soap and water. Cover the irritated skin with an emollient. If symptoms develop seek medical attention.
Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion: Induce vomiting if conscious and as directed by a physician. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms appear.

9. Fire Fighting Measures

This product may be combustible at high temperature. Development of hazardous combustion gases or vapors is possible in the event of fire. Products of combustion are carbon oxides (CO, CO_2).
Flash Point: >100 °C (212 °F) Closed cup method.
Extinguishing Media: Water spray (fog), foam, dry chemical or CO2.
Fire Fighting Procedures: Emergency responders should wear self contained breathing apparatus and full protective clothing.

10. Toxicological Information

Acute Oral Toxicity: (LD_{50}) >16000 mg/kg (rat).
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

11. Disposal Consideration

This material is considered non-hazardous chemical waste. Dispose of according to all federal, stare and local regulations.

12. Transport Information

DOT Shipping Name: not regulated
ADR/ RIC Code: not regulated
Sea Transport IMDG Code: not regulated
Air Transport IATA: not regulated