

Avobenzone

Safety Data Sheet according to Federal Register / Vol. 77, No. 58
/ March 26, 2012 / Rules and Regulation


Revision Date: 05-02-2015
Supersedes: 03-21-2014

1 PRODUCT & COMPANY IDENTIFICATION

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|----------------------|--|------------------------------------|---|
| Product Name: | Avobenzone | Distributor: | MakingCosmetics, Inc. |
| Synonyms: | Butyl methoxydibenzoyl methane | Address: | 10800 231 st Way NE Redmond, WA 98053 (USA) |
| INCI Name: | Butyl methoxydibenzoyl methane | Phone / Fax: | 425-292-9502 / 425-292-9601 |
| CAS Number: | 70356-09-1 | Web: | www.makingcosmetics.com |
| Formula: | C ₂₀ H ₂₂ O ₃ | Emergency Telephone Number: | 1-800-424-9300 (Chemtrec) |
| Product Form: | Powder | | |
| Product Use: | Cosmetic use | | |

2 HAZARDS IDENTIFICATION

GHS Signal Word: **WARNING**

GHS Hazard Pictograms: 

GHS Hazard Statements:
H411: Toxic to aquatic life with lasting effects
H413: May cause long lasting harmful effects to aquatic life

GHS Precautionary Statements:
P501: Dispose in accordance with local disposal regulations

Potential Health Hazards:
Eyes: May cause irritation, tearing and mild temporary pain.
Inhalation: May cause irritation of the respiratory tract.
Skin: May cause skin irritation
Ingestion: May cause vomiting, nausea, thirst, diarrhea and abdominal pain.

NFPA Ratings (704):

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| Health | 1 | Slight |
| Flammability | 1 | Slight |
| Reactivity | 0 | Minimal |

Specific Hazard

3 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS No.</u> | <u>Weight %</u> | <u>Molecular Weight</u> |
|------------------|----------------|-----------------|-------------------------|
| Avobenzone | 70356-09-1 | >98.0% min. | 310.39 g/mol |

4 FIRST AID MEASURES

Eyes: In case of eye contact, rinse with plenty of water and seek medical attention if necessary

Inhalation: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

Skin: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary

Ingestion: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

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| <p>Suitable (and unsuitable) extinguishing media:</p> <p>Special protective equipment & precautions for firefighters:</p> <p>Specific hazards arising from the chemical:</p> | <p>Product is not flammable. Use appropriate media for adjacent fire. Cool unopened containers with water.</p> <p>Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.</p> <p>Emits toxic fumes under fire conditions. See also Stability and Reactivity section.</p> |
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6 ACCIDENTAL RELEASE MEASURES

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| <p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Methods and material for containment and cleaning up:</p> | <p>See section 8 for recommendations on the use of personal protective equipment. Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements</p> <p>Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations</p> |
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7 HANDLING & STORAGE

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| <p>Safe handling:</p> <p>Safe storage:</p> | <p>See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.</p> <p>Store in cool, dry well ventilated area. Keep away from incompatible materials.</p> |
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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Component</u> | <u>Exposure Limits</u> | <u>Basis</u> | <u>Entity</u> |
|---|---|---|---------------|
| Avobenzone | Not available | | |
| <small>TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work. REL: Recommended Exposure Limit PEL: Permissible Exposure Limit</small> | | <small>STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels CEIL: Ceiling</small> | |
| Personal Protection: | | | |
| Eyes: | Wear chemical safety glasses or goggles. | | |
| Inhalation: | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. | | |
| Skin: | Wear nitrile or rubber gloves, apron or lab coat. | | |
| Other: | Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling | | |

9 PHYSICAL AND CHEMICAL PROPERTIES

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| <p>Appearance, Physical State:</p> <p>Odor:</p> <p>Color:</p> <p>Medium Particle Size:</p> <p>Molecular Weight:</p> <p>Specific Surface Area (BET):</p> <p>Boiling Point:</p> <p>Melting Point:</p> | <p>Crystalline powder</p> <p>Slightly aromatic</p> <p>White</p> <p>Not available</p> <p>310.39 g/mol</p> <p>Not available</p> <p>Not available</p> <p>81 - 86°C (177.8 - 186.8°F)</p> | <p>pH Value:</p> <p>Vapor Density:</p> <p>Evaporation Rate:</p> <p>Flash Point:</p> <p>Specific Gravity:</p> <p>Solubility:</p> | <p>Not available</p> <p>Not applicable</p> <p>Not applicable</p> <p>>100°C (>212°F)</p> <p>1.037 - 1.041 g/cm³</p> <p>Insoluble in water (0.003 mg/L); soluble in oils</p> |
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10 STABILITY AND REACTIVITY

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| Reactivity: | Product is stable |
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| Chemical Stability: | Product is stable |
| Possibility of Hazardous Reactions: | Will not occur |
| Conditions to Avoid: | Not available |
| Hazardous Decomposition Products: | Not available |

11 TOXICOLOGICAL INFORMATION

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| Acute Toxicity: | LD50 >16,000 mg/kg (oral, rat), LD50 >8,000mg/kg (oral, mouse), LD0 >1,000mg/kg (dermal, rat) Slightly irritating (several species), not phototoxic (guinea pig), penetrates skin at low rate Non-irritant (rabbit) |
| Subchronic Toxicity: | NOAEL 230mg/kg/d (dermal, rat, 28d), NOEL 450mg/kg (oral, rat, 13 weeks), NOEL 1,000mg/kg (oral, rat, 6 weeks) |
| Carcinogenicity: | No component of this product present at levels greater than 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, and OSHA. |
| Teratogenicity: | Not teratogenic, not embryotoxic |
| Mutagenicity: | Not mutagenic, not photomutagenic |
| Sensitizing: | Not sensitizing, not photoallergenic |
| Specific Target Organ Toxicity: | Not available |
| Reproductive Toxicity: | Not available |

12 ECOLOGICAL INFORMATION

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| Ecotoxicity: | It is toxic to aquatic organisms. Barely toxic for fish (LD50 >100mg, 96h), planktonic crustaceans (EC50 > 100mg/l, 48h), algae (EC50 > 100mg/l, 72h) |
| Persistence and Degradability: | No adverse influence on substrate biodegradation (activated sludge) |
| Bioaccumulative Potential: | Not available |
| Mobility in Soil: | Not available |
| PBT and vPvB Assessment: | Not available |

13 DISPOSAL CONSIDERATIONS

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| Waste Residues: | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container. |
| Product Containers: | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container. |

The information in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

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| DOT (Dept. of Transportation, USA): | Not regulated |
| TDG (Transportation of Dangerous Goods, Canada): | Not regulated |
| ICAO (International Civil Aviation Organization): | Not regulated |
| UN Number | ADR/RID: 3077, IMDG: 3077, IATA: 3077 |
| UN proper shipping name (ADR/RID, IMDG, IATA): | Environmentally hazardous substance, solid, n.o.s. (1-(4-Methoxyphenyl)-3-(4-tert-butylphenyl)-1,3-propanedione |

15 REGULATORY INFORMATION

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| TSCA Inventory Status: | All ingredients are listed on the TSCA inventory |
| DSCL (EEC): | Not available |
| SARA 311/312: | Not available |
| SARA 313: | Not available |
| U.S. EPA: | Not available |
| U.S. TRI: | Not available |

16 OTHER INFORMATION

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| Revision Date: | 05-02-2015 |
| Compliance: | This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 |
| Disclaimer: | This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use. |