

Oxybenzone

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


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Supersedes: 05-02-2015

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Oxybenzone	Distributor: MakingCosmetics.com Inc.
Synonyms: Benzophenone-3, 2-Hydroxy-4-methoxy-benzophenone	Address: 10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name: Benzophenone-3	Phone / Fax: 425-292-9502 / 425-292-9601
CAS Number: 131-57-7	Web: www.makingcosmetics.com
Formula: C ₁₄ H ₁₂ 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:
H400: Very toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:
P273: Avoid release into the environment
P391: Collect spillage
P501: Dispose of contents/container in accordance with local and federal 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):

Health	2	Moderate
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>
Oxybenzone	131-57-7	100%	228.24 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

Suitable (and unsuitable) extinguishing media: Carbon oxides combustible. Use appropriate media for adjacent fire: Water, Foam, Carbon Dioxide (CO₂), dry powder.

Special protective equipment & precautions for firefighters: Vapors are heavier than air and may spread along floors. Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

Specific hazards arising from the chemical: Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapors possible in the event of fire. See also Stability and Reactivity section.

Flash Point: 212°F (100°C)

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions: Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements
Methods and material for containment and cleaning up: Cover drains. Collect, bind and pump off spills. Observe possible material restrictions. Take up dry. 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

7 HANDLING & STORAGE

Safe handling: See section 8 for recommendations on the use of personal protective equipment. Avoid release to the environment. Collect spillage. Dispose of contents/container to an approved waste disposal plant. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.
Safe storage: Tightly closed. Store in cool, dry well-ventilated area. Keep away from incompatible materials. (Bases, Acid chlorides, Acid anhydrides, oxidizing agents, strong oxidizing agents)

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Oxybenzone	Not available		
TWA: Time Weighted Average over 8 hours of work.		STEL: Short Term Exposure Limit during x minutes.	
TLV: Threshold Limit Value over 8 hours of work.		IDLH: Immediately Dangerous to Life or Health	
REL: Recommended Exposure Limit		WEEL: Workplace Environmental Exposure Levels	
PEL: Permissible Exposure Limit		CEIL: Ceiling	

Personal Protection:

Eyes: Wear chemical safety glasses or goggles tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Inhalation: Required when dusts are generated. Respiratory protection based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. 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: Change contaminated clothing. Wash hands after working with substance. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	crystalline	pH Value:	Not available
Odor:	Characteristic	Vapor Density:	Not applicable
Color:	White to yellowish	Vapor Pressure:	<0.1 hPa @ 20°C (68°F)
Medium Particle Size:	Not available	Evaporation Rate:	Not applicable
Molecular Weight:	Not available	Evaporation Rate:	Not available
Flash Point:	100°F (212°C)	Specific Gravity:	1.20 g/cm ³
Boiling Point:	150-160°C (302-320°F)	Solubility:	Slightly soluble in water
Melting Point:	62-64°C (144-147°F)	Flammability:	This product is not flammable

10 STABILITY AND REACTIVITY

Reactivity: Product is stable
Chemical Stability: Product is stable
Possibility of Hazardous Reactions: Will not occur
Conditions to Avoid: Incompatible with bases, acid chlorides, acid anhydrides. Sensitive to light
Hazardous Decomposition Products: Not available

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	LD50 >7,400 mg/kg (oral, rat)
Skin:	May cause skin irritation. It is expected to be essentially non-irritating to skin. May cause photoallergic contact dermatitis. It may be absorbed through the skin.
Eyes:	May cause eye irritation. It is expected to be essentially non-irritating to eyes.
Inhalation:	May cause upper respiratory tract and mucous membrane irritation.
Ingestion:	Ingestion of large amounts may cause gastrointestinal tract irritation with nausea, and vomiting.
Chronic Toxicity:	Repeated or prolonged ingestion may affect the liver, urinary system, and metabolism (weight loss)
Carcinogenicity:	No data available
Teratogenicity:	No data available
Mutagenicity:	Mutagenic for bacteria and/or yeast.
Sensitizing:	No data available
Specific Target Organ Toxicity:	No data available
Reproductive Toxicity:	May cause adverse reproductive effects. May affect genetic material (mutagenic)

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Semi-static test LC50-Oryzias latipes-3.8 mg/l-96h, semi-static test NOEC-Oryzias latipes-0.72 mg/l-96h, static test EC50-Daphnia- 1.87 mg/l-48h, static test NOEC-Dahnia-1.15 mg/l-48h, static test EC50- Pseudokirchneriella subcapitata-0.41 mg/l-72h, static test NOEC- Pseudokirchneriella subcapitata-0.67 mg/l-72h, static test EC50-activated sludge-> 100mg/l-3 h
Persistence and Degradability:	Partially biodegradable
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
PBT and vPvB Assessment:	Not available

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Do not dump into any sewers, on the ground, or into any body of water. 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

DOT (Dept. of Transportation, USA):	Not dangerous goods
IMO/ IMDG:	Regulated
IATA:	Regulated
Harmonization Code:	2914.50.1000
Marine Pollutant:	Yes
UN Number:	UN3077
Proper Shipping Name:	Environmentally hazardous substances, solid, n.o.s.
Hazard Class:	9:Miscellaneous Hazardous Materials
Packing Group:	GROUP III

15 REGULATORY INFORMATION

California Proposition 65:	Chemicals Known to the State of California to Cause Cancer: The product oxybenzone is not listed as carcinogenic. However, benzophenone is listed as carcinogenic and may occur in trace amounts in oxybenzone.
TSCA Inventory Status:	All ingredients are listed on the TSCA inventory
TSCA 5(a) SNUR:	Not listed
SARA 311/312:	Not listed
SARA Title III Section 313:	This Material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

R&D Exemption: Unknown
Other: NJ & PA Right to know components: Oxybenzone

16 OTHER INFORMATION

Revision Date: 14-Mar-2022

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.