Oxybenzone

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

Revision Date: 21-Feb-2024
Supersedes: 02-Dec-2021

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Oxybenzone
Synonyms: Benzophenone-3, 2-Hydroxy-4-methoxy-benzophenone
INCI Name: Benzophenone-3
CAS Number: 3131-57-7
Formula: No data available
Product Form: Solid
Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)
Phone / Fax: 425-292-9502 / 425-292-9601
Web: **www.makingcosmetics.com**

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 2

GHS Labeling: **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 to 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	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Benzophenone-3	131-57-7	<=100%	Not Available

4 FIRST AID MEASURES

Eyes: After eye contact: rinse out with plenty of water. Remove contact lenses. Seek medical attention if necessary.
Inhalation: Move to fresh air. Seek medical attention if necessary.
Skin: Take off all contaminated clothing immediately. Rinse skin with water/shower. Seek medical attention if necessary
Ingestion: After swallowing: make victim drink water (two glasses at most). Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if symptoms develop and persist.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	Use appropriate media (Water Foam Carbon dioxide (CO2) Dry powder) for adjacent fire. No unsuitable extinguish media determined.
Special protective equipment & precautions for firefighters:	Use standard firefighting procedures and consider the hazards of other involved materials. Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Flash Points:	212.0 ºF (100.0 ºC)
Specific hazards arising from the chemical:	Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapors are possible in the event of fire. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Avoid release to the environment. Collect spillage. Dispose of contents/ container to an approved waste disposal plant. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Clean up affected area. Avoid generation of dusts. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Avoid release to the environment. Collect spillage. Dispose of contents/container to an approved waste disposal plant. Observe good industrial hygiene practices. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Store tightly closed in a dry area. Storage class (TRGS 510): 13: Non Combustible Solids. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Benzophenone-3	Not available	Not available	Not available

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

STEL: Short Term Exposure Limit during x minutes.
IDLH: Immediately Dangerous to Life or Health
WEEL: Workplace Environmental Exposure Levels
CEIL: Ceiling

Personal Protection:

Eyes:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses should be worn.
Inhalation:	Respiratory protection required when dust is generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Skin:	Full protective clothing should be worn, including 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:	Crystalline	**Vapor Pressure:**	< 0.1 hPa at 20 °C (68 °F)
Odor:	No data available	**Vapor Density:**	No data available
Odor Threshold:	No data available	**Evaporation Rate:**	No data available
Color:	Light yellow	**Flammability:**	Not flammable
Molecular Weight:	No data available	**Upper/lower Explosive Limit:**	No data available
pH:	No data available	**Flash Point:**	100 °C (212 °F) - closed cup
Boiling Point:	150 - 160 °C 302 - 320 °F at 7 hPa - lit	**Specific Gravity:**	No data available

Melting/Freezing Point:	62 - 64 °C (144 - 147 °F) - lit	**Water Solubility:**	Slightly soluble
Density:	No data available	**Auto-Ignition Temperature:**	No data available
Partition Coefficient: n-octanol/water:	log Pow: 3.45 at 40 °C (104 °F)	**Decomposition Temperature:**	No data available
Viscosity:	No data available	**Explosive Limits/Properties:**	No data available

10 STABILITY AND REACTIVITY

Reactivity: No data available.
Chemical Stability: Stable under normal conditions.
Hazardous Polymerization: No data available.
Conditions to Avoid: Bases, Acid chlorides, Acid anhydrides, Oxidizing agents, Strong oxidizing agents.
Incompatible Materials: Bases, Acid chlorides, Acid anhydrides, Oxidizing agents, Strong oxidizing agents.
Hazardous Decomposition Products: No data available.
Possible Hazardous Reactions: No data available.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD50 (Rat): 12,800 mg/kg (OECD Test Guideline 401)
Dermal LD50 (Rabbit): 16,000 mg/kg (OECD Test Guideline 402)
Skin: No skin irritation
Eyes: No skin irritation
Respiratory: No data available
Ingestion: No data available
Carcinogenicity: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC, NTP, OSHA
Teratogenicity: No data available
Germ Cell Mutagenicity: No data available
Embryotoxicity: No data available
Specific Target Organ Toxicity: No data available
Reproductive Toxicity: No data available
Respiratory/Skin Sensitization: No data available
Skin Corrosion/Irritation: No data available
Skin Sensitization: No data available
Chronic Effects: No data available

12 ECOLOGICAL INFORMATION

Ecotoxicity: semi-static test LC50-Oryzias latipes-3.8 mg/l-96 h, semi-static test NOEC-Oryzias latipes-0.72mg/l-96h, static test EC50-Daphnia-1.87 mg/l-48h, static test NOEC-Daphnia-1.15 mg/l-48h, static test EC50-Pseudokirchneriella subcapitata-0.41mg/l-72h, static test NOEC-Pseudokirchneriella subcapitata-0.67mg/l-72h, static test EC50-activated sludge-> 100 mg/l-3h
Persistence and Degradability: Partially biodegradable.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
PBT and vPvB Assessment: No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste Characterizations and compliance with applicable laws are the responsibility solely of the waste generator. For unused/uncontaminated product, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator, or other thermal destruction device.
Product Containers: Dispose of contents/container in accordance with all applicable local regulations.

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

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated as dangerous goods.
IMDG (International Maritime Dangerous Goods):	Regulated
IATA (International Air Transport Association):	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

TSCA Registered:	Yes
TSCA 5(a) SNUR	No
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
NJ & PA Right to Know Components:	Oxybenzone

16 OTHER INFORMATION

Revision Date:	21-Feb-2024
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 suitableness & completeness of such information for his own particular use.