

OXYBENZONE

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: Oxybenzone
 INCI Name: Oxybenzone
 Chemical Name: 2-hydroxy-4-methoxybenzophenone
 CAS Number: 131-57-7
 EINECS Number: 205-031-5

Inhalation: Inhalation may be irritating to respiratory system. Symptoms include: coughing, wheezing, shortness of breath. Repeated or prolonged inhalation of dust particulate may aggravate respiratory medical conditions.
 Ingestion: Not considered to be toxic for humans.

2. PHYSICAL & CHEMICAL PROPERTIES

Molecular Weight: 228.25 g/mole
 Vapor Density: not available
 Melting Point: 62 - 65°C (143.6 - 149°F)
 Boiling Point: 224 - 227°C (435.2 - 440.5°F)
 Specific Gravity: Density 1.3397 g/cm³
 Vapor Pressure: not available
 Solubility in Water: insoluble
 Appearance & Odor: pale yellow crystalline powder, weak rose-like odor

8. FIRST AID MEASURES

Eyes: Remove contact lenses. Irrigate eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
 Skin: Wash exposed areas of the body with soap and water. Remove contaminated clothing and shoes. Wash clothing & shoes before reuse. If symptoms persist seek medical attention.
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
 Ingestion: If large quantities are swallowed, call a physician immediately. Do not induce vomiting unless directed by a physician.

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
 Incompatibility: incompatible with acids, bases, oxidizing agents
 Hazardous Decomposition: Not available
 Hazardous Polymerisation: Will not occur
 Conditions of Instability: heat, spark or open flame

9. FIRE FIGHTING MEASURES

Flammability: May be combustible at high temperatures
 Flammability Limits, Flash Points: Not available
 Products of Combustion: Carbon oxides (CO, CO₂)
 Extinguishing Media: Water spray/fog, foam, dry chemical, CO₂
 Explosions Hazards: none in the presence of static discharge or mechanical impact
 Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear including NIOSH-approved self-contained breathing apparatus with full facepiece & protective clothing.

4. HANDLING & STORAGE

Store in closed containers between 50°F and 120°F protected from humidity. Keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flamer; also store out of sun. Do not puncture, drag, or slide this container. Drum is not pressure vessel; never use pressure to empty.

10. TOXICOLOGICAL INFORMATION

Toxicity: acute oral toxicity (LD₅₀): > 12800 mg/kg (rat)
 Chronic Effects on Humans: carcinogenic, mutagenic, teratogenic effects & developmental toxicity: not available
 Carcinogenicity: not known to cause cancer in animals/humans

5. ACCIDENTAL RELEASE MEASURES

Isolate spill or leak area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

11. DISPOSAL CONSIDERATIONS

Ecotoxicity: in water (LC₅₀): 100-220mg/l, 96 hours (fish)
 BOD₅ and COD: Not available
 Toxicity of Biodegradation: not toxic
 Disposal Consideration: EPA waste number: non-hazardous. Storage and disposal must be in accordance with applicable local, state & federal disposal regulations.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: If dusts are generated, wear a NIOSH approved organic dust respirator.
 Protective Clothing: Safety glasses, goggles, or face shield recommended to protect eyes from dusts. PVC coated gloves recommended to prevent skin contact.
 Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

12. TRANSPORT INFORMATION

DOT, TDG, IMO/IMDG, ICAO/IATA Class: not regulated

7. HAZARDS IDENTIFICATION

General: May cause respiratory tract, eye and skin irritation
 Routes of Entry: Eyes, inhalation. Ingestion not anticipated
 Eye / Skin Contact: May cause irritation. Symptoms include: itching, redness after contact.

13. 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.

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