



MATERIAL SAFETY DATA SHEET

BENZOPHENONE-4

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common name: Benzophenone-4
Synonyms: UV 284, Sulisobenzone
Manufacture: Huangshi Meifeng Chemical Co., Ltd.
No.6 Tonggu road, Tieshan district, Huangshi, Hubei, China
Tel:+86-714-6516948 Fax:+86-714-6515778

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS No.: 4065-45-6
Chemical name: 2-Benzoyl-5-methoxy-1-phenol-4-sulfonic acid
Molecular formula: C₁₄H₁₂O₆ S
Molecular weight: 308.31

SECTION 3 - HAZARDS IDENTIFICATION

Hazard symbols: None Listed.

Risk phrases: None Listed

Potential health effects:

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

SECTION 4 - FIRST AID MEASURES

Eyes contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin contact: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic



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gases may be generated by thermal decomposition or combustion.

Extinguishing media: Use agent most appropriate to extinguish fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General information: Use proper personal protective equipment as indicated in Section 8.

Spills/leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

SECTION 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid
Form: Crystal - powder
Color: off white - light yellow
Odor: No data available
pH: 1.2-2.2



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Melting point/freezing point:	140°C min
Boiling point/range:	No data available
Flash point:	No data available
Explosive limits	
Lower:	No data available
Upper:	No data available
Density:	No data available
Solubility:	Soluble in : Water
log Pow =	1.72

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal temperatures and pressures.
Conditions to avoid:	Incompatible materials.
Incompatibilities with other materials:	Oxidizing agents, bases, acid chlorides, acid anhydrides.
Hazardous decomposition products:	Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous polymerization:	Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

LD50/LC50:	Oral, rat: LD50 = 2710 mg/kg.
Carcinogenicity:	Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

SECTION 12- ECOLOGICAL INFORMATION

Ecotoxic effects:	
No observed effect concentration (NOEC):	220 mg/l
LC50/<i>leuciscus idus</i>:	> 220 /< 460mg/l/96h
EC/LC0 (48 h):	220mg/l
Elimination information:	



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Method of analysis: DOC reduction.
Degree of elimination: < 20%
Evaluation: Not readily biodegradable

Behavior and environmental fate:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Inhibition of respiration in activated sludge EC20 > 1000mg/l

(ISO 8192/ OECD 209/ EEC 88/302 C).

Further information: Do not discharge product into natural water without pretreatment.

COD value: 1490 mg/g.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA: Not regulated as a hazardous material.
IMO: Not regulated as a hazardous material.
RID/ADR: Not regulated as a hazardous mate

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

United Kingdom Occupational Exposure Limits

Canada

CAS# 4065-45-6 is listed on Canada's DSL List.

CAS# 4065-45-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits



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US FEDERAL

TSCA

CAS# 4065-45-6 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 7/16/2002 Revision#8 DATE:5/1/2015

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.