

BENZOPHENONE-3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical Name: 2-Hydroxy-4-methoxybenzophenone
INCI Name: BENZOPHENONE-3
Other names: Oxybenzone, UV-9, BP-3
MFCI Code: Mfsorb 202
CAS No.: 131-57-7
EINECS No.: 205-031-5
Reach Dossier Type: Full Registration
Registration number 01-2119976330-39-0007

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Personal care, cosmetic, and industry.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Hubei Meikai Chemical Co., Ltd.
Contact address: Maoshan Industrial Park, Pengsi Town, Qichun county, Huanggang City,
Hubei, China
Telephone: +86-714-6516706
Fax: +86-714-6516705
E-mail: service@mfc.com.cn

1.4. Emergency telephone number

Opening hours: 8:30-17:30, Monday-Friday
Telephone: +86-714-6552881

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	
Acute aquatic	hazard Category 1
Long-term aquatic chronic hazard	Category2

2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment

P391: Collect spillage

P501 Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No data available.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Name:	Benzophenone-3
CAS Number:	131-57-7
EC Number:	205-031-5
Purity:	≥99.0%

3.2. Mixtures

Not applicable

SECTION 4: First Aid Measures

4.1. Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

No further information available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

5.2. Special hazards arising from the substance or mixture

During combustion, may emit irritant fumes.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1.2 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with workplace control parameters

This product contains no substances with occupational exposure limit values.

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

Personal protective equipment

Eye protection

Safety goggles with side-shields.

Hand protection

Protective gloves.

Skin and body protection

Impervious clothing.

Respiratory protection

Suitable respirator.

Environmental exposure controls

Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:

Crystal - powder

Color:

Pale greenish yellow

Odor:	Odorless
pH:	No data available
Melting point:	62-65°C
Boiling point:	No data available
Density:	No data available
Vapour pressure:	No data available.
Log Pow:	3.58
Solubility(ies):	Soluble in: Methanol
Flash point:	203°C
Flammability:	Not flammable.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2. Other information

No further information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Strong acids/alkalis, strong oxidizing/reducing agents.

10.6. Hazardous decomposition products

Under fire conditions, may decompose and emit toxic fumes.

Other decomposition products - no data available.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Oral LD50

LD50 Oral - Rat - 7,400 mg/kg

Inhalation LC50

No data available

Dermal LD50

No data available

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eyes

Causes eye irritation.

Signs and Symptoms of Exposure

Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue, prolonged or repeated exposure can cause damage to the eyes.

Synergistic effects

No data available

Additional Information

RTECS: DJ1575000

SECTION 12: Ecological Information

12.1. Toxicity

Fish	48h LC50 8.48 mg/L (Oryzias latipes)	96h LC50 3.6 mg/L (Oryzias latipes)
Crustacea	48h EC50 1.9 mg/L (Daphnia magna)	
Algae	72h EC50 0.41 mg/L (Selenastrum capricornutum)	

12.2. Persistence and degradability

4 % (by BOD), 0 % (by HPLC)

12.3. Bioaccumulative potential

Potential(BCF):

39 - 160 (conc. 100 ug/L), 33 - 156 (conc. 10 ug/L)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

No further relevant information available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport Information

14.1 UN number

3077

14.2 UN proper shipping name

Environmentally hazardous substance, solid, n.o.s.

14.3 Transport hazard class(es)

ADR/RID

Class or Division 9: Miscellaneous dangerous goods.

UN/NA number UN3077

Shipping Name Environmentally hazardous substance, solid, n.o.s.

IMDG

Class or Division 9: Miscellaneous dangerous goods.

UN/NA number UN3077

Shipping Name Environmentally hazardous substance, solid, n.o.s.

IATA

Class or Division 9: Miscellaneous dangerous goods.

UN/NA number UN3077

14.4 Packaging group

III

14.5 Environmental hazards

Marine pollutant Y

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

US federal regulations

CERCLA/SARA Hazardous Substances - Not applicable.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard – No

Delayed Hazard - No
 Fire Hazard – No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

Other federal regulations

Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA)

Not regulated

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

SDS Creation Date: 7/16/2002

Revision #14

Date: 8/18/2020

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.