

BENZOPHENONE-1

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

1.1. Product identifier

Chemical Name:	2,4-Dihydroxybenzophenone
INCI Name:	BENZOPHENONE-1
Other names:	UV-0, BP-1
MFCI Code:	MFSORB 501
CAS No.:	131-56-6
EINECS No.:	205-029-4
Reach Dossier Type:	Full Registration
Registration number	01-2120041737-54-0001

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

Relevant identified uses

Personal care, cosmetic, plastic, and industry.

1.3. Details of the supplier of the safety data sheet

Manufacturer:	MFCI (Huanggang) Co., Ltd.
Contact address:	No. 5 Duotang Village, Huangzhou Railway Station Economic Development Zone, Huanggang, Hubei, China
Telephone:	+86-714-6516948
Fax:	+86-714-6515778
E-mail:	liu.hao@mfc.com.cn

1.4. Emergency telephone number

Opening hours:	8:30-17:30, Monday-Friday
Telephone:	+86-714-6516948

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3

H319, H315, H335

Aquatic Chronic 2

H411

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard Pictogram



Signal Word

Warning

Hazard Statements

H319-Causes serious eye irritation.

H315-Causes skin irritation.

H361-Suspected of damaging fertility
H335-May cause respiratory irritation.
H411-Toxic to aquatic life with long lasting effects

Precautionary Statements (Prevention)

P264-Wash hands thoroughly after handling.
P273-Avoid release to the environment.
P280-Wear protective gloves/eye protection/face protection.

Precautionary Statements (Response):

P391-Collect spillage.
P305+351+338-IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313-If eye irritation persists: Get medical advice/attention.
P302+350-IF ON SKIN: Gently wash with soap and water.
P332+313-If skin irritation occurs: Get medical advice/attention.
P342-Take off contaminated clothing and wash before reuse.

Precautionary Statements (Disposal):

P501-Dispose of contents/container to an approved waste disposal plant.

Supplemental Hazard information (EU)

Not applicable.

2.3. Other hazards

The substance is not PBT / vPvB.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Name:	Benzophenone-1
CAS Number:	131-56-6
EC-Number:	205-029-4
Purity:	≥99.0%

3.2. Mixtures

Not applicable

SECTION 4: First Aid Measures

4.1. Description of first aid measures

General advice

Move out of dangerous area. Never give anything by mouth to an unconscious person

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

Eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
Get medical aid.

Skin

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion

Get medical aid. Wash mouth out with water.

Inhalation

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician

Treat symptomatically and supportively.

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

Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, dry chemical, carbon dioxide, or chemical foam.

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, nitrogen oxides

5.3. Advice for firefighters

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

No special precautions necessary.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

For large amounts

Dike spillage. Place into suitable container for disposal.

For residues

Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

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

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Store in a tightly closed container.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

8.2. Exposure controls

Personal protective equipment

Eyes

Wear chemical goggles.

Skin

Wear appropriate protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure.

Respirators

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Solid (crystal - powder)
Color:	White - light yellow.
Odor:	No data available.
pH:	No data available.
Melting point:	142-146°C
Boiling point:	No data available.
Density:	No data available.
Vapour pressure:	No data available.
Partition coefficient (n-octanol/water):	3.01 (25°C).
Solubility(ies):	Soluble in: Methanol; Insoluble in Water
Flash point:	Not applicable, the product is a solid.
Flammability:	Not flammable.
Explosive properties:	Not explosive.
Oxidising properties:	No data available.

9.2. Other information

No further information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid: Strong oxidizing agents, strong bases.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

LD50/LC50:

Draize test, rabbit, eye: 100 mg/24H Moderate; Oral, rat: LD50 = 8600 mg/kg.

Carcinogenicity:

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

Eye irritation: Causes eye irritation

Skin irritation: Causes skin irritation

Sensitization: No data available.

Mutagenicity: No data available.

Teratogenicity: No data available.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity

Toxic to aquatic life with long lasting effects

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): 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

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

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

European/International Regulations

European Labeling in Accordance with EC Directives

United Kingdom Occupational Exposure Limits

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 #13

Date: 6/18/2020

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.