


<b>Material Safety Data Sheet</b>	
<b>BENZOPHENONE</b>	<b>VERSION : 03</b> <b>DATE OF ISSUE : 31-01-2022</b> <b>SUPERSEDES : 02</b>
<b>Product Code : 12730</b>	<b>Page 1 of 9</b>

## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name :** BENZOPHENONE

**Product code :** 12730

**Identification of the product :** Benzophenone

**CAS No :** 119-61-9

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

**Use :** Industrial. For professional use only.

### **1.3. Details of the supplier of the safety data sheet**

**Company identification :** MOLYCHEM

**Office:** 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)

**Tel:** +91 22 4066 8111, 2205 7772 . **Fax:** + 91 22 2203 4442.

**Email :** [info@molychem.net](mailto:info@molychem.net)

**Works:** Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

### **1.4. Emergency telephone number**

**Emergency number :** +91 22 4066 8111 (10:00am - 6:00 pm).

## **2. Hazards identification**

### **2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Carcinogenicity (Category 2), H351

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

**Symbol(s) :** N : Dangerous for the environment



**R Phrase(s) :** R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s) :** S61: Avoid release to the environment . refer to special instruction/safety data sheets.

**Labelling according Regulation (EC) No 1272/2008**

**Hazard pictograms**

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**Signal word : Warning**

**Hazard statement(s)**

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

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

**Supplemental Hazard**

Statements none

## **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **3. Composition/information on ingredients**

### **3.1 Substances : Benzophenone**

CAS-No. : 119-61-9

**Substance name**

**Contents**

**CAS No**

**Benzophenone**

100 %

119-61-9

Substance.

Contains no other components or impurities which will influence the classification of the product.

## **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.

#### **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**

Flush eyes with water as a precaution.

#### **If swallowed**

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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**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

## **5. Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

No data available

## **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. For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **6.3 Methods and materials 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**

For disposal see section 13.

## **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.

For precautions see section 2.2.

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## **7.2 Conditions for safe storage, including any incompatibilities**

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

Storage class (TRGS 510): Non Combustible Solids

## **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal protective equipment**

##### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

##### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **9. Physical and chemical properties**

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## **9.1 Information on basic physical and chemical properties**

**Odour Threshold:** No data available

**pH:** No data available

**Melting point/range:** 47 - 51 °C

**Initial boiling point and boiling range :** 305 °C

**Flash point** 138 °C - closed cup

**Evaporation rate :** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits :** No data available

**Vapour pressure 1 mmHg at 108 °C**

**Vapour density:** No data available

**Relative density:** No data available

**Water solubility** No data available

**Partition coefficient:** noctanol/ water

**Auto-ignition temperature :** No data available

**Decomposition temperature :** No data available

**Viscosity :** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

## **9.2 Other safety information**

No data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

Strong oxidizing agents, Strong reducing agents

### **10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available In the event of fire: see section 5

## **11. Toxicological information**

### **11.1 Information on toxicological effects**

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## **Acute toxicity**

LD50 Oral - Rat - > 10,000 mg/kg(Benzophenone)

LD50 Dermal - Rabbit - 3,535 mg/kg(Benzophenone)

## **Skin corrosion/irritation**

No data available(Benzophenone)

## **Serious eye damage/eye irritation**

No data available(Benzophenone)

## **Respiratory or skin sensitisation**

No data available(Benzophenone)

## **Germ cell mutagenicity**

No data available(Benzophenone)

## **Carcinogenicity**

Suspected human carcinogens(Benzophenone)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benzophenone)

## **Reproductive toxicity**

No data available(Benzophenone)

## **Specific target organ toxicity - single exposure**

No data available(Benzophenone)

## **Specific target organ toxicity - repeated exposure**

No data available

## **Aspiration hazard**

No data available(Benzophenone)

## **Additional Information**

RTECS: DI9950000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Benzophenone)

## **12. Ecological information**

### **12.1 Toxicity**

Toxicity to fish mortality NOEC - Pimephales promelas (fathead minnow) - 5.86 mg/l - 7.0 d(Benzophenone)

mortality LOEC - Pimephales promelas (fathead minnow) - 9.24 mg/l - 7.0 d(Benzophenone)

LC50 - Pimephales promelas (fathead minnow) - 14.2 mg/l - 96.0 h(Benzophenone)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0.28 mg/l - 24 h(Benzophenone)

### **12.2 Persistence and degradability**

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Biodegradability Result: 0 % - According to the results of tests of biodegradability this product is not readily biodegradable.

## **12.3 Bioaccumulative potential**

No data available

## **12.4 Mobility in soil**

No data available (Benzophenone)

## **12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **12.6 Other adverse effects**

Very toxic to aquatic life with long lasting effects.

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

#### **Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

### **14.1 UN number**

ADR/RID: 3077 IMDG: 3077 IATA: 3077

### **14.2 UN proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Benzophenone)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Benzophenone)

IATA: Environmentally hazardous substance, solid, n.o.s. (Benzophenone)

### **14.3 Transport hazard class(es)**

ADR/RID: 9 IMDG: 9 IATA: 9

### **14.4 Packaging group**

ADR/RID: III IMDG: III IATA: III

### **14.5 Environmental hazards**

ADR/RID: yes IMDG Marine pollutant: no IATA: yes

### **14.6 Special precautions for user**

### **Further information**

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EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## **15. Regulatory information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

## **End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

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