


SAFETY DATA SHEET

BENZOPHENONE

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

1.1 Product identifier:	
CAS Number:	119-61-9
EC number:	204-337-6
1.2 SYNONYMS:	<ul style="list-style-type: none"> • BP • Benzophenone-1 • Benzoylbenzene • Diphenylmethanone • 1,2-Diphenylethane

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	<p>Labelling according to Regulation (EC) No 1272/2008</p> <p>Carcinogenicity, (Category 1B)</p> <p>Specific target organ toxicity - repeated exposure, (Category 2), Liver, Kidney</p> <p>Long-term (chronic) aquatic hazard, (Category 3)</p>
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	<p>H350: May cause cancer.</p> <p>H373: May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed.</p> <p>H412: Harmful to aquatic life with long lasting effects.</p>

Precautionary Statements:	<p>P202: Do not handle until all safety precautions have been read and understood.</p> <p>P260: Do not breathe dust.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P308 + P313: IF exposed or concerned: Get medical advice/ attention.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents/ container to an approved waste disposal plant.</p>
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, dizziness, and headaches.
Ingestion:	can cause nausea, vomiting, abdominal pain, and potentially more severe gastrointestinal distress.
Skin Contact:	may cause irritation, redness, or allergic reactions in sensitive individuals.
Eye contact:	can cause irritation, redness, and discomfort.
Chronic Exposure:	Chronic exposure may lead to skin sensitization, potential endocrine disruption, and long-term health effects such as liver or kidney damage.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as skin disorders, respiratory issues, or allergies, particularly in individuals with sensitivities or asthma.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 119-61-9 BENZOPHENONE
Identification number(s):	EC number: 204-337-6

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately. Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure can cause respiratory irritation, skin and eye irritation, while chronic exposure may lead to skin sensitization, potential hormonal disruption, and liver or kidney damage.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water, Carbon dioxide dry powder
5.2 Special hazards arising from the substance or mixture:	Carbon oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Keep away from moisture.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.

General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Crystalline solid
Colour:	Pale yellow
Odour:	Mild, slightly sweet odor
pH-value:	Not applicable
Melting point/Melting range:	50°C
Boiling point/Boiling range:	306°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	460°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	153°C
Danger of explosion:	None
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	1.3×10^{-6} mm Hg at 25°C
Density at 20 °C:	1.11 g/cm ³

Relative density:	1.11
Vapour density:	5.9
Evaporation rate:	Not applicable
Solubility in / Miscibility with- water at 20 °C:	Slightly Soluble
Partition coefficient:(n- octanol/water)	3.18
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	May react with strong oxidizing agents to undergo strong hazardous reaction.
10.4 Conditions to avoid	Excessive heat flames and open sparks.
10.5 Incompatible materials	Strong acids, strong bases, strong oxidizers. Alkalis.
10.6 Hazardous decomposition products	Carbon dioxide, carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 2.895 mg/kg LD50 (Dermal, Rabbit): 3.535 mg/kg LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	Can cause cancer
Reproductive toxicity:	No data available

Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	Can cause damage to liver, kidney (organ damage)
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily Biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): 14.2 mg/l (96hr) EC50(daphnia): 6.78 mg/l (48 hr) ErC50(algae): 3.5 mg/l (72 hr)
12.2 Persistence and degradability:	Readily Biodegradable
12.3 Bioaccumulative potential:	Moderate bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Soapy water, isopropyl alcohol, acetone, ethyl alcohol, commercial degreasers.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1323
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	BENZOPHENONE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	9

14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substances as environmentally hazardous substance.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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