

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Product Identifier

**Product Name:** BENZOPHENONE 4

#### Other means of identification

Product Code	3017200
CAS Number	4065-45-6
Formula	C14H12O6S
Synonyms	Benzenesulfonic Acid, 5-Benzoyl-4-Hydroxy-2-Methoxy-; Sulisobenzone; 2-Hydroxy-4-Methoxybenzophenone-5-Sulfonic Acid

#### Recommended use of the chemical and restrictions on use

Recommended Use	Food, Beverage & Cosmetics
Uses advised against	Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

#### Details of the supplier of the safety data sheet

**Supplier:** Elchemy

**Company Address:** A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India

**Company Web Site:** [www.elchemy.com](http://www.elchemy.com)



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#### US Office

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DE 19958



Registered Name: **BizinBiz Technologies Private Limited**

Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur India Pvt. Ltd., New Delhi, India, 110002

CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**

IEC: AAJCB9425C

**Emergency Phone Number:** +919867099519 (24 Hrs)

**Email Id:** info@elchemy.com

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin Sensitization	Category 1

### Label elements

### Emergency Overview

**Signal Word:** Warning

### Hazard statements:

- Harmful in contact with skin
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction

**Appearance:** Off-white to Light yellow

**Physical State:** Powder

**Odor:** Not available

### Precautionary Statements - Prevention

- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area



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- Wash face, hands and any exposed skin thoroughly after handling
- Contaminated work clothing should not be allowed out of the workplace

## Precautionary Statements - Response

- Specific treatment (see supplemental first aid instructions on this label)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell

## Precautionary Statements - Disposal

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

## Hazards not otherwise classified (HNOC)

None known

## Other Information

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Benzenesulfonic Acid, 5-Benzoyl-4-Hydroxy-2-Methoxy-; Sulisobenzone; 2-Hydroxy-4-Methoxybenzophenone-5-Sulfonic Acid

**Formula:** C14H12O6S

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Benzophenone 4	4065-45-6	100	True



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## 4. FIRST AID MEASURES

### First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media** No information available.

**Hazardous Combustion Products** Thermal decomposition or combustion may produce hazardous gases and/or materials.

**Explosion Data** Not available

**Sensitivity to mechanical impact** Not available.

**Sensitivity to static discharge** Not available.

**Specific Hazards Arising from the Chemical** Keep product and empty container away from heat and sources of ignition.

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes,
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	skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Environmental Precautions</b>	Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

## Methods and material for containment and cleaning up

**Methods for Clean-up** Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Handling</b>	Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours/dust. Avoid contact with eyes, skin and clothing. Avoid repeated exposure.
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### Conditions for safe storage, including any incompatibilities

<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Hygroscopic. Protect from moisture. Protect from water.
<b>Incompatible Materials</b>	Strong Acids.


## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzophenone 4 4065-45-6	-	-	-

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## Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

## Individual protection measures, such as personal protective equipment

<b>Eye/Face Protection</b>	Tight sealing safety goggles.
<b>Skin and body protection</b>	Use suitable eye protection and gloves.
<b>Respiratory Protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Off-white to Light yellow Powder
<b>Physical State</b>	Solid
<b>Odor</b>	Not available
<b>Odor Threshold</b>	No information available

Property	Values	Remarks Method
<b>pH</b>	2.2	
<b>Melting point / Freezing point</b>	170 °C	Literary Reference
<b>Boiling point / boiling range</b>	No information available	
<b>Flash Point</b>	No Data Available	No information available
<b>Evaporation Rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>	No	
<b>Upper flammability limit</b>	No information available	



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## 10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Chemical Stability	Stable under recommended storage conditions
Conditions to Avoid	Heat, flames and sparks. Hygroscopic. Protect from moisture. Avoid contact with water.
Incompatible Materials	Strong Acids.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ).
Possibility of Hazardous Reactions	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Product Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzophenone 4	= 3530 mg/kg (Rat)	-	-

The following values are calculated based on chapter 3.1 of the GHS document

### Information on likely routes of exposure

Eyes	Irritating to eyes. Avoid contact with eyes.
Skin	Harmful in contact with skin. Irritating to skin. Avoid contact with skin.
Inhalation	Harmful by inhalation. Avoid breathing dust.
Ingestion	May be harmful if swallowed. Do not take internally.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.



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## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Eye, rabbit: 100 mg MOD
Serious eye damage/irritation	No information available.
Skin Corrosion/Irritation	No information available.
Sensitization	May cause allergic skin reaction.
Reproductive Effects	No information available.
Mutagenic Effects	No information available.
Developmental Effects	No information available.
STOT - single exposure	No information available.
STOT - Repeated Exposure	No information available.
Chronic Toxicity	Avoid repeated exposure.
Target Organ Effects	Eyes, Skin, Respiratory system.
Aspiration Hazard	No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

There is no known ecological information for this product

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzophenone 4 4065-45-6	-	-	-	-

Persistence/Degradability No information available.

Bioaccumulation/Accumulation No information available.

Mobility in Soil No information available.

Chemical name	log Pow =
Benzophenone 4 4065-45-6	-



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Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal Methods Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken to an appropriate waste disposal facility.

## 14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
Canada (DSL)	Complies
EU (EINECS)	Complies
EU (ELINCS)	Does not comply
Japan (ENCS)	Complies
China (IECSC)	Complies



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CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**

IEC: AAJCB9425C

Korea (KECL)	Complies
Philippines (PICCS)	Complies
Australia (AICS)	Complies
Mexico INV	Does not comply
Taiwan INV	Complies

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)
Benzophenone 4	Present	Present	X	-

Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
Present (4)-145, (4)-160	Present	Present	Present	Present	

Chemical name	Mexico INV	Taiwan INV
Benzophenone 4 4065-45-6	-	Present

## Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.



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## VOC content

This Product does not contain any VOCs

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### Canada

### WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

### NFPA

Health 2 Flammability 0 Instability 0 Physical Hazard 0



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## 3017200 BENZOPHENONE 4



Issuing Date	14-Aug-2013
Revision Date	09-Oct-2019
Revision Summary	Not available

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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