



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 28-Dec-2022 Revision Number 2.05

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Benzophenone Standard	
Product Code	026-13571	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964	
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029	
Emergency telephone number Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only	

### Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Carcinogenicity Specific target organ toxicity (repeated exposure) Category 2 liver, kidneys Acute aquatic toxicity Chronic aquatic toxicity

Category 4 Category 1B Category 2

Category 2 Category 2

Pictograms



### Hazard statements

- H302 Harmful if swallowed
- H350 May cause cancer
- H411 Toxic to aquatic life with long lasting effects
- H401 Toxic to aquatic life
- H373 May cause damage to the following organs through prolonged or repeated exposure: liver, kidneys

### Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray

#### · Avoid release to the environment

### **Precautionary statements-(Response)**

- · IF exposed or concerned: Get medical advice/attention
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Collect spillage

Precautionary statements-(Storage)

Store locked up

**Precautionary statements-(Disposal)** 

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

#### Others Other hazards

Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Single Substance or Mixture

Formula

C6H5COC6H5

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Benzophenone	99.0	182.22	(3)-1258,(4)-125	*	119-61-9
Note on ISHL No.:	on ISHL No.: * in the table means announced chemical substances.				

Impurities and/or Additives:

Not applicable

### Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### **Protection of first-aiders**

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Special extinguishing method

No information available

### Special protective actions for

#### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: HANDLING AND STORAGE

#### Handling

#### Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

#### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

### **Storage**

Safe storage conditions	
Storage conditions	Keep container protect from light and tightly closed in well ventilated cool place under 25°C
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

#### **Exposure limits**

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

#### Personal protective equipment Respiratory protection Hand protection Eye protection Skin and body protection

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range

white crystals - crystalline powder characteristic odor 48 - 50 °C 305.4 °C Flammability no data available Evaporation rate: no data available Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: no data available Lower: 143 °C Flash point Auto-ignition temperature: no data available **Decomposition temperature:** no data available no data available pН Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available Solubilities Ethanol, acetone: soluble.water: practically insoluble,or insoluble. n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density 1.087 Vapour density no data available **Particle characteristics** no data available

### Section 10: STABILITY AND REACTIVITY

#### Stability

Reactivity	no data available
Chemical stability	May be altered by light.
Hazardous reactions	
None under normal processing	
Conditions to avoid	
Extremes of temperature and d	irect sunlight
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition produ	icts
Carbon monooxide (CO), Carbo	on dioxide (CO2)

### Section 11: TOXICOLOGICAL INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzophenone	1900 mg/kg(Rat)	> 2000 mg/kg ( Rabbit )	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Benzophenone			Based on the NITE GHS classification results.
Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information

Based on the NITE GHS

classification results.

Based on the NITE GHS

classification results.

#### Skin irritation/corrosion

Benzophenone

Chemical Name	Skin corrosion/irritation source information
Benzophenone	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Benzophenone	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Benzophenone	Based on the NITE GHS classification results.

Based on the NITE GHS

classification results.

Chemical Name		germ cell mutagencity source information		
Benzophenone		Based on the NITE GH	S classification re	sults.
Carcinogenicity				
Chemical Name		Carcinog	enicity source ir	oformation
Benzophenone		Based on the NITE GHS classification results.		
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Benzophenone 119-61-9	-	Group 2B	-	Group 2B
Reproductive toxicity				
Chemical Name		Reproductiv	e toxicity source	e information
Benzophenone		Based on the NITE GHS classification results.		
STOT-single exposure				
Chemical Name		STOT -single exposure- source information		
Benzophenone		Based on the NITE GHS classification results.		
STOT-repeated exposure				
Chemical Name		STOT -repeated exposure- source information		
Benzophenone		Based on the NITE GHS classification results.		
Aspiration hazard				
Chemical Name		Aspiration Hazard source information		
Benzophenone		Based on the NITE GHS classification results.		

## Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Benzophenone	ErC50: Pseudokirchneriella subcapitata	LC50 : Pimephales Promelas 10.9 mg/L 96 h	N/A
	3.53 mg/L 72 h		

#### Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
		Based on the NITE GHS classification
	results.	results.

Persistence and degradability Bioaccumulative potential	No information available No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

### Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication

UN3077 Environmentally hazardous substance, solid, n.o.s. (Benzophenone) 9

Subsidiary hazard class Packing group Marine pollutant	III Yes
IMDG	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Benzophenone)
UN classfication	9
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Yes
Transport in bulk according to	
Annex II of MARPOL 73/78 and the IBC Code	
IATA	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Benzophenone)
UN classfication	9
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous	Yes
Substance	

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	t Not applicable
Regulations for the carriage	Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Misellaneous Dangerous Substances and Articles (Ordinance Art. 194, MITL Nortification
	for Air Transportation of Explosives etc., Attached Table 1)
Pollutant Release and Transfer	Class 1
Register Law	
(~2023.3.31)	
Class 1 - No.	403
Pollutant Release and Transfer	<u>Class 1</u>
<u>Register Law</u> (2023/4/1~)	
Class 1 - No.	403
Export Trade Control Order	Not applicable
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Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(~2023.3.31)
		(~2024.3.31)	
Benzophenone 119-61-9 ( 99.0 )	-	-	Applicable

Section 16: OTHER INFORMATION		
Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations	

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc

#### Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

#### End of Safety Data Sheet