



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 29-Jan-2023 Revision Number 5.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Benzomate Standard
Product Code	021-07313
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
Emergency telephone number	Findle: +81-6-6203-2029 Fax: +81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571
Recommended uses and restrictions on use	For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute aquatic toxicity Chronic aquatic toxicity

Category 1 Category 1

Pictograms



Warning

Hazard statements

H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention) • Avoid release to the environment

Precautionary statements-(Response)

- Collect spillage
- Precautionary statements-(Storage)

Not applicable 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

C18H18CINO5

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Benzomate	98.0	363.79	N/A	4-(7)-192	29104-30-1
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	

Not applicable Impurities and/or Additives:

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.

Eve 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.

Indestion

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 oxidiz	ing agents. Use with local exhaust ventilation.
Precautions	
scattering. Not to generate stea then gargle In places other than	rs, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and m and dust in vain. Seal the container after use. After handling, wash hands and face, and those specified, should not be smoking or eating and drinking Should not be brought nent and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the
Safety handling precautions	
	clothing. Use personal protective equipment as required.
Storage Safe storage conditions	
Storage conditions	Keep container protect from light tightly closed. Store in a cool (2-10 °C) place.
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents
Section 8: I	EXPOSURE CONTROLS/PERSONAL PROTECTION
Engineering controls In case of indoor workplace, sea and eye-wash facility. And displ	al the source or use a local exhaust system. Provide the safety shower facility, and hand- ay their position clearly.

Exposure limits

Handling

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	
General hygiene considerations	

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

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	white
Appearance	crystals - powder
Odor	no data available
Melting point/freezing point	71-75 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	acetone : soluble . water : practically insoluble,or insoluble .
n-Octanol/water partition coefficient:(log Pow)	2.4
Vapour pressure	no data available
Specific Gravity / Relative density	no data available

Vapour density Particle characteristics no data available 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 direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzomate	15000mg/kg(Rat)	>15000mg/kg(Rat)	N/A

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Benzomate	N/A	LC50: 0.44ppm/48hr	N/A

Other data

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

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available 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	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Benzomate)
UN classfication	9
Subsidiary hazard class	
Packing group	
Marine pollutant	Yes
IMDG	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Benzomate)
UN classfication	9
Subsidiary hazard class	
Packing group	III
Marine pollutant (Sea)	Yes
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
IATA	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Benzomate)
UN classfication	9
Subsidiary hazard class	
Packing group	
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS 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 goods in ship	Transport by Ship and Storage, Attached Table 1)	
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 Register Law		
(~2023.3.31)		
Pollutant Release and Transfer	Not applicable	
<u>Register Law</u> (2023/4/1~)		
(2023/4/1~) Export Trade Control Order	Not applicable	
Section 16: OTHER INFORMATION		

Key literature references and

NITE: National Institute of Technology and Evaluation (JAPAN)

sources for data etc. 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