



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 22-Feb-2024 Revision Number 2.06

Category 2

Category 1B Category 4

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Benzo[b]fluoranthene Standard
Product Code	028-13651
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 Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Germ cell mutagenicity Carcinogenicity Chronic aquatic toxicity

Pictograms



Signal word

Danger

Hazard statements

H341 - Suspected of causing genetic defects

- H350 May cause cancer
- H413 May cause long lasting harmful effects to aquatic life

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
- · Avoid release to the environment

Precautionary statements-(Response)

• IF exposed or concerned: Get medical advice/attention

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

Single Substance or Mixture Substance

Formula	C20H1	2			
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Benzo[b]fluoranthene	99.0	252.31	N/A	N/A	205-99-2
Nata an IOLU Na i	مطفحة *	table measure anneur	منه ماريم الممانية مرمام الممم		

Note on ISHL No.: * in

* in the table means announced chemical substances.

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 Safe packaging material Incompatible substances

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Glass 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 (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color	White
Appearance	crysta
Odor	no dat
Melting point/freezing point	163 - <i>1</i>
Boiling point, initial boiling point and boiling range	no dat
Flammability	no dat
Evaporation rate:	no dat
Flammability (solid, gas):	no dat
Upper/lower flammability or explosive limits	
Upper:	no dat
Lower:	no dat
Flash point	no dat
Auto-ignition temperature:	no dat
Decomposition temperature:	no dat
рН	no dat
Viscosity (coefficient of viscosity)	no dat

- yellow alline powder - powder or mass ta available 171 °C ta available ita available ata available ta available ta available ta available ta available ta available ita available ta available ta available

Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available water : practically insoluble,or insoluble . acetone : soluble . 6.04 no data available 1.274 no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityMay be altered by light.Hazardous reactionsMay be altered by light.None under normal processingConditions to avoidConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsHazardous decomposition productsCarbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.		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
Benzo[b]fluoranthene		Based on the NITE GHS	Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.
Carcinogenicity	· · ·
Chemical Name	Carcinogenicity source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Benzo[b]fluoranthene	Reasonably	Group 2B	A2	Group 2B
205-99-2	Anticipated			
Reproductive toxicity				
Chemical Name		Reproducti	ve toxicity source ir	nformation

Benzo[b]fluoranthene	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Benzo[b]fluoranthene	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Benzo[b]fluoranthene	N/A	N/A	EC50 : Daphnia magna
			> 1.024 mg/L 24 h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Benzo[b]fluoranthene	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	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 Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated - Not applicable No information available

ΙΑΤΑ	Not regulated
UN number	-
Proper shipping name:	
UN classfication	
Subsidiary hazard class	
Packing group	
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act	Not applicable	
Poisonous and Deleterious	Not applicable	
Substances Control Law	Not applicable	
Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)		
	Notifiable Substances (Law Art.57-2)	
	Substances designated by the Minister of Health, Labor and Welfare as	
	carcinogenic(Ordinance on Industrial Safety and Health Art.577, Para.2)	
Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc. (Regulations Article 594-2 Paragraph 1)	
<u>2024~)</u>		
Regulations for the carriage	Not applicable	
and storage of dangerous		
goods in ship		
Civil Aeronautics Law	Not applicable	
Pollutant Release and Transfe	r Not applicable	
Register Law		
(2023.4.1-)		
Export Trade Control Order	Not applicable	
Air Pollution Control Law	Hazardous Air Pollutants	

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Benzo[b]fluoranthene 205-99-2 (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
Record of SDS revisions	The following contents were revised. Regulatory information.

Record of SDS revisions 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 Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet