



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 20-Feb-2024 Revision Number 4.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dibenzo[a,h]anthracene Standard
Product Code	041-26791
Supplier	FUJIFILM Wako Pure Chemical Corporation
	1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741
	Filone. +61-6-0203-3741 Fax: +81-6-6203-2029
Emergency telephone number	+81-6-6203-3741 / +81-3-3270-8571
Recommended uses	For research use only
Restrictions on use	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 Reproductive Toxicity Chronic aquatic toxicity

Pictograms



Signal word

Danger

#### Hazard statements

- H341 Suspected of causing genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- 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

Category 2 Category 1B Category 1B Category 4

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Substance

Formula

C22H14

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dibenzo[a,h]anthracene	93.0	278.35	N/A	N/A	53-70-3
Note on ISHL No.: * 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 Store away from sunlight in a cool (2-10 °C) well-ventilated dry place. 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

Dust mask ( JIS T 8151 ) chemical protective gloves ( JIS T 8116 ) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

#### Skin and body protection 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	slightly yellow - greenish yellow
Appearance	crystalline powder - powder
Odor	no data available
Melting point/freezing point	265 - 270 °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

pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available no data available no data available acetone : soluble . 6.5 no data available 1.28 no data available no data available

# Section 10: STABILITY AND REACTIVITY

### Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 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)
 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
			Based on the NITE GHS classification results.
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Dibonizolajnjananacono			Based on the NITE GHS classification results.

#### Skin irritation/corrosion

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

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Dibenzo[a,h]anthracene	Reasonably	Group 2A	-	-
53-70-3	Anticipated			

#### Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Dibenzo[a,h]anthracene	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	
Dibenzo[a,h]anthracene	Based on the NITE GHS classification results.	
STOT-repeated exposure		
Chemical Name	STOT -repeated exposure- source information	
Dibenzo[a,h]anthracene	Based on the NITE GHS classification results.	
Aspiration hazard		
Chemical Name	Aspiration Hazard source information	
Dibenzo[a,h]anthracene	Based on the NITE GHS classification results.	

# Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dibenzo[a,h]anthracene	ErC50 : Pseudokirchneriella subcapitata > 0.0013 mg/L 72 h	LC50 : Oryzias latipes var. > 0.014 mg/L 96 h	EC50 : Daphnia magna > 0.016 mg/L 48 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.

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)	Not regulated - Not applicable

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNo information availableIATANot regulatedUN number-Proper shipping name:<br/>UN classfication<br/>Subsidiary hazard class<br/>Packing group<br/>Environmentally HazardousNot applicable<br/>Substance

# Section 15: REGULATORY INFORMATION

Japanese regulations				
Fire Service Act	Not applicable			
Poisonous and Deleterious	Not applicable			
Substances Control Law				
Industrial Safety and Health Act Not applicable				
Industrial Safety and Health Act (	[2024.4.1~] Harmful Substand	ces Whose Names Are to be Indica	ated on the Label (Law Art.57)	
<u>2024~)</u>	【2024.4.1~】Notifiable Substa	nces (Law Art.57-2)		
	[2024.4.1~] Substances desig	gnated by the Minister of Health, La	abor and Welfare as	
	carcinogenic(Ordinance on Indu	strial Safety and Health Art.577, P	ara.2)	
	【2024.4.1~】 Chemical Substan	nces Hazardous to Skin, etc.(Regu	lations Article 594-2 Paragraph 1)	
Regulations for the carriage	Not applicable			
and storage of dangerous				
goods in ship				
Civil Aeronautics Law	Not applicable			
Pollutant Release and Transfer	Not applicable			
Register Law				
(2023.4.1-)				
Export Trade Control Order	Not applicable			
Air Pollution Control Law	Hazardous Air Pollutants			
Industrial Safety and Health Law				
Law Name	Chemical Name in Regulation	Weight %		
Notifiable Substances (Law Art.57-2)	dibenz[a,h]anthracene (alias:	93.0	2024/4/1	
	1,2:5,6-dibenzanthracene)			

### 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. Ecological information. 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