



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Apr-2022

Revision Number 5.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Anthracene
Product Code	015-04211
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	+81-6-6203-3741 / +81-3-3270-8571 For research use only

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

restrictions on use

Classification of the substance or mixture

Serious eye damage/eye irritationCategory 2ASkin sensitizationCategory 1CarcinogenicityCategory 2Specific target organ toxicity (single exposure)Category 3Category 3Respiratory irritation

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

**Pictograms** 



#### **Hazard statements**

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer

H335 - May cause respiratory irritation

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

## **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

- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- · Wear protective gloves
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

#### Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- · Collect spillage

### Precautionary statements-(Storage)

- · Store locked up
- Store in a well-ventilated place. Keep container tightly closed

#### 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 C14H10

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Anthracene	99.5	178.23	(4)-683	4-(12)-518	120-12-7

\* 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

Note on ISHL No.:

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.

## 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

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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, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

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
Dust mask
Protection gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

\_\_\_\_\_\_

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Colorgreen fluorescent white - slightly brownAppearancecrystals - crystalline powder or flakes

Odorno data availableMelting point/freezing point216 - 218 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

340 °C

no data available

no data available

no data available

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data availableFlash pointno data available

Auto-ignition temperature: 540 °C

Decomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

**Solubilities** Ethanol : slightly 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 1.25

Vapour densityno data availableParticle characteristicsno 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)

## Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Anthracene	8,120 mg/kg (Rat)	> 1320 mg/kg (Rat)	N/A

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Anthracene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Anthracene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

classification re	esults.	classific	ation results.	classificat	ion results.
Skin irritation/corrosion Chemical Name			Skin corrosi	on/irritation sourc	o information
Anthracene		Rased		S classification res	
Serious eye damage/ irritation		Базсо	TOTI THE THILE OF	O classification res	uito.
Chemical Name			Serious eve dar	nage/irritation so	urce information
Anthracene				S classification res	
Respiratory or skin sensitization					
Chemical Name		R	espiratory or Sk	in sensitization s	ource information
Anthracene				S classification res	
Reproductive cell mutagenicity					
Chemical Name		germ cell mutagencity source information			
Anthracene		Based on the NITE GHS classification results.			
Carcinogenicity					
Chemical Name		Carcinogenicity source information			
Anthracene		Based on the NITE GHS classification results.			
Chemical Name	NTP		IARC	ACGIH	JSOH (Japan)
Anthracene			Group 3		
120-12-7					
Reproductive toxicity			D		1
Chemical Name		Reproductive toxicity source information  Based on the NITE GHS classification results.			
Anthracene		pased on the NITE GHS diassilication results.			
STOT-single exposure Chemical Name			STOT single	AVDOCUTO COUTO	o information
Anthracene		STOT -single exposure- source information  Based on the NITE GHS classification results.			
STOT-repeated exposure		разец	on the Mile on	o classification res	ouito.
Chemical Name			STOT -repeate	ed exposure- sour	ce information
Anthracene		Based on the NITE GHS classification results.			
Aspiration hazard		12000			
Chemical Name			Aspiration	Hazard source in	nformation
Onomical reality					

# **Section 12: ECOLOGICAL INFORMATION**

Based on the NITE GHS classification results.

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Anthracene	EC50 : Pseudokirchneriella	LC50 : Lepomis macrochirus	EC50 : Daphnia magna
	subcapitata	0 - 0.00318 mg/L 96 h	0.081 - 0.112 mg/L 48 h
	0.0039 - 0.0374 mg/L 22 h	LC50 : Lepomis macrochirus	-
	_	0.00278 mg/L 96 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
Anthracene	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
Mobility

No information available
No information available
No information available

Anthracene

# **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

UN3077 **UN** number

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Anthracene)

**UN classfication** Subsidiary hazard class

Packing group Ш Marine pollutant Yes

**IMDG** 

**UN** number UN3077

Environmentally hazardous substance, solid, n.o.s. (Anthracene) Proper shipping name:

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN3077 **UN** number

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Anthracene)

**UN classfication** 

Subsidiary hazard class

Ш Packing group **Environmentally Hazardous** Yes

**Substance** 

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

**EINECS/ELINCS** Listed **TSCA** Listed

Japanese regulations

Fire Service Act Not applicable Not applicable Poisonous and Deleterious

**Substances Control Law** 

Industrial Safety and Health Act Substances with Health Hazards Prevention Guideline(Carcinogenicity Substance) Industrial Safety and Health Act ( 【2024.4.1~】 Harmful Substances Whose Names Are to be Indicated on the Label (Law

2024~)

Art.57, Para.1, Enforcement Order Art.18)

【2024.4.1~】Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached

TableNo.9)

Regulations for the carriage

and storage of dangerous

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding 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**  $(\sim 2023.3.31)$ 

> Class 1 - No. 32

Pollutant Release and Transfer

Class 1

Register Law (2023/4/1~)

Class 1 - No. 32

## **Export Trade Control Order** Not applicable

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(~2023.3.31)
		(~2024.3.31)	,
Anthracene	-	-	Applicable
120-12-7 ( 99.5 )			

# **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**