



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Feb-2024

Revision Number 1.09

Category 2

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Bisphenol A-d14 Standard
Product Code	020-14211

Supplier FUJIFILM Wako Pure Chemical Corporation

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**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

Classification of the substance or mixture

Serious eye damage/eye irritationCategory 1Skin sensitizationCategory 1Reproductive ToxicityCategory 1B

Specific target organ toxicity (single exposure)

Category 1, Category 3

Category 1 respiratory system
Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 2 digestive system, respiratory system

Acute aquatic toxicity Category 2

Chronic aquatic toxicity

Category 2

Category 2

### **Pictograms**



# Hazard statements

H318 - Causes serious eye damage

H360 - May damage fertility or the unborn child

H336 - May cause drowsiness or dizziness

H317 - May cause an allergic skin reaction

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: respiratory system

H373 - May cause damage to the following organs through prolonged or repeated exposure: digestive system, respiratory system

### **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
- · Contaminated work clothing should not be allowed out of the workplace
- · Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- · Avoid release to the environment

# Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- 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 C15H2D14O2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Bisphenol A-d14	98.0	242.37	4-123	公表	80-05-7 (UNLABE

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 Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas.

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 Dust mask ( JIS T 8151 )

Hand protection chemical protective gloves (JIS T 8116)

**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection 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 crystalline powder - powder

Odorno data availableMelting point/freezing point156 - 159 °CBoiling point, initial boiling point and boiling range220 °C

Flammability no data available
Evaporation rate: no data available
Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
rlash point
no data available
pH
no data available

Dynamic viscosity (coefficient of viscosity) no data available no data available

**Solubilities** water: slightly soluble. Ethanol, acetone, ether: freely soluble

n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available

Specific Gravity / Relative density 1.195

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**

Data as deuterium compound has not been obtained. The data of non-labeled compound is described.

### **Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50		
Bisphenol A-d14	3250mg/kg(Rat)	3000mg/kg(Rabbit)	N/A		
Biophonol / Car i	ozoomg/ng(nat/	ooomig, ng (nabbit)	147.		
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-		
	information	information	source information		
Bisphenol A-d14	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS		
	classification results.	classification results.	classification results.		
Oh and a l Name	Acute toxicity inhelation	Acute toxicity inhelation dust	Acute toxicity -inhalation mist-		
Chemical Name	Acute toxicity -inhalation vapor- source information	source information	source information		
Bisphenol A-d14	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS		
·	classification results.	classification results.	classification results.		
Chin instation/sourceion					
Skin irritation/corrosion	nical Name	Skin corresion/irritat	ion source information		
	enol A-d14	Based on the NITE GHS classif			
Serious eye damage/ irritation		Dased on the TVITE of to classif	ication results.		
	nical Name	Serious eye damage/irritation source information			
	enol A-d14	Based on the NITE GHS classification results.			
Respiratory or skin sensitizat		Dadda dir ind titte dire diaden	iodion roddio.		
	nical Name	Respiratory or Skin sens	itization source information		
	enol A-d14	Based on the NITE GHS classification results.			
Reproductive cell mutagenici					
	nical Name	germ cell mutagenc	ity source information		
	enol A-d14	Based on the NITE GHS classification results.			
Carcinogenicity		·			
Chem	nical Name	Carcinogenicity	source information		
Bisph	enol A-d14	Based on the NITE GHS classif	ication results.		
Reproductive toxicity					
	nical Name	Reproductive toxicity source information			
	enol A-d14	Based on the NITE GHS classif	rication results.		
STOT-single exposure		0.707 -:			
	nical Name	STOT -single exposure- source information			
	Bisphenol A-d14 Based on the NITE GHS classification results.				
STOT-repeated exposure	STOT-repeated exposure  Chemical Name  STOT -repeated exposure- source information				
		Based on the NITE GHS classif			
	enol A-d14	based on the NHE GHS Classif	ication results.		
Aspiration hazard					

# **Section 12: ECOLOGICAL INFORMATION**

Data as deuterium compound has not been obtained. The data of non-labeled compound is described.

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Bisphenol A-d14	N/A	LC50: 15mg/L/48 h	LC50: 1100μg/L/96 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	
Bisphenol A-d14	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

Persistence and degradability Degree of decomposition: 0 % by BOD

**Chemical Name** 

Bisphenol A-d14

Aspiration Hazard source information

Based on the NITE GHS classification results.

**Bioaccumulative potential** 

Mobility in soil

No information available No information available No information available

Hazard to the ozone layer

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

Environmentally hazardous substance, solid, n.o.s. (Bisphenol A-d14) Proper shipping name:

**UN classfication** 

Subsidiary hazard class

Ш Packing group Marine pollutant Yes

**IMDG** 

**UN** number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Bisphenol A-d14)

**UN classfication** 

Subsidiary hazard class

Ш Packing group Marine pollutant (Sea) Yes

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

ΙΔΤΔ

**UN** number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Bisphenol A-d14)

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

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 Substances Whose Names Are to be Indicated on the Label (Law Art.57) 2024~) 【2024.4.1~】Notifiable Substances (Law Art.57-2)

[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Act on the Evaluation of **Chemical Substances and** Regulation of Their Manufacture, etc

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 (2023.4.1-)

Class 1 - No. 37

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Export Trade Control Order Appendix 1 Export licensed items

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)	4,4'-isopropylidenediphenol	98.0	2024/4/1	
	(alias: bisphenol A)			

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-)
Bisphenol A-d14 80-05-7 (UNLABE ( 98.0 )	-	-	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 Disclaimer The following contents were revised. Regulatory information.

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**