



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 20-Feb-2024

Revision Number 5.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Aflatoxin B1 Standard
Product Code	015-23491

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 +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - OralCategory 2Germ cell mutagenicityCategory 2CarcinogenicityCategory 1AReproductive ToxicityCategory 1BSpecific target organ toxicity (single exposure)Category 1

Category 1 liver

Specific target organ toxicity (repeated exposure) Category 1

Category 1 liver

Pictograms



Signal word

Danger

Hazard statements

- H300 Fatal if swallowed
- H341 Suspected of causing genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H370 Causes damage to the following organs: liver
- H372 Causes damage to the following organs through prolonged or repeated exposure: liver

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
- Do not eat, drink or smoke when using this product
- · Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth

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 C17H12O6

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Aflatoxin B1	98.0	312.27	N/A	N/A	1162-65-8

Note on ISHL No.:

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

^{*} in the table means announced chemical substances.

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.

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

ColorWhite - slightly yellowAppearancecrystalline powder - powderorno data available

Melting point/freezing point 270 °C

Boiling point, initial boiling point and boiling rangeno data availableFlammabilityno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
Decomposition temperature:
no data available
pH
no data available
Viscosity (coefficient of viscosity)
no data available
Dynamic viscosity
no data available

Solubilities dichloromethane : soluble .

n-Octanol/water partition coefficient:(log Pow)
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)

Section 11: TOXICOLOGICAL INFORMATION

Since data of Aflatoxins B1 is not available, data as Aflatoxins (CAS No.1402-68-2).

Acute toxicity

- 1	Acute textory				
	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
	Aflatoxin B1	7.2 mg/kg bw (Rat, male)	N/A	N/A	
		17.9 mg/kg bw (Rat, female)			

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
, matoxiii B i			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
Aflatoxin B1		Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Aflatoxin B1	Based on the NITE GHS classification results.	

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information

Aflatoxin B1	Based on the NITE GHS classification results.			
Respiratory or skin sensitization				
Chemical Name	Respiratory or Skin sensitization source information			
Aflatoxin B1	Based on the NITE GHS classification results.			
Reproductive cell mutagenicity				
Chemical Name	germ cell mutagencity source information			
Aflatoxin B1	Based on the NITE GHS classification results.			
Carcinogenicity				
Chemical Name	Carcinogenicity source information			
Aflatoxin B1	Based on the NITE GHS classification results.			

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Aflatoxin B1	Known	Group 1		
1162-65-8				

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Aflatoxin B1	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Aflatoxin B1	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Aflatoxin B1	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Aflatoxin B1	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Since data of Aflatoxins B1 is not available, data as Aflatoxins (CAS No.1402-68-2).

Ecotoxicity No information available

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Aflatoxin B1	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

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 UN3462

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin B1)

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN3462

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin B1)

UN classfication

Subsidiary hazard class

Packing group

Not applicable Marine pollutant (Sea)

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

UN3462 **UN** number

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin B1)

UN classfication

Subsidiary hazard class

Ш 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**

Industrial Safety and Health Act Not applicable

2024~)

【2024.4.1~】Notifiable Substances (Law Art.57-2)

【2024.4.1~】 Substances designated by the Minister of Health, Labor and Welfare as

carcinogenic(Ordinance on Industrial Safety and Health Art.577, Para.2)

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Regulations for the carriage and storage of dangerous

goods in ship

Regarding Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Appendix 1 Export licensed items

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %			
Notifiable Substances (Law Art.57-2)	aflatoxin	98.0	2024/4/1		

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. Prodauct and company Identification. Hazards identification. Exposure controls/personal protection. Toxicological information. Ecological information. Regulatory information.

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