



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 27-Feb-2024

Revision Number 3.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

	B-Trichothecenes Mixture Solution (NIV, DON, 3-AcDON, 15-AcDON in Acetonitrile)
Product Code	202-16811

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

Flammable liquids
Category 2
Acute toxicity - Dermal
Category 3
Acute toxicity - Inhalation (Vapors)
Category 4
Serious eye damage/eye irritation
Category 2A
Specific target organ toxicity (single exposure)
Category 1

Category 1 central nervous system, respiratory system

Specific target organ toxicity (repeated exposure)

Category 2

Category 2 blood system, central nervous system, respiratory system, liver, kidneys

Pictograms



Hazard statements

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H311 - Toxic in contact with skin

H332 - Harmful if inhaled

H370 - Causes damage to the following organs: central nervous system, respiratory system

H373 - May cause damage to the following organs through prolonged or repeated exposure: blood system, central nervous system, respiratory system, liver, kidneys

Precautionary statements-(Prevention)

- · Use only outdoors or in a well-ventilated area
- 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

- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- · Use only non-sparking tools
- Take precautionary measures against static discharge
- Wear protective gloves/protective clothing/eye protection/face protection

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
- If eye irritation persists: Get medical advice/attention
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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
- · In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

- Store locked up
- · Store in a well-ventilated place. Keep cool

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 Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Acetonitrile	<100	41.05	(2)-1508	*	75-05-8
15-Acetyldeoxynivalenol	100 ug/mL	338.35	N/A	N/A	88337-96-6
Nivalenol	100 ug/mL	312.32 (anhydrate)	N/A	N/A	23282-20-4
3-Acetyldeoxynivalenol	100 ug/mL	338.35	N/A	N/A	50722-38-8
Deoxynivalenol	100 ug/mL	296.32	N/A	N/A	51481-10-8

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

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

Suitable extinguishing media

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. Vapors may form explosive mixtures with air

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

<u>Handling</u>

Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

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

locked up.

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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Acetonitrile	N/A	N/A	TWA: 20 ppm
75-05-8			Skin

Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Acetonitrile 75-05-8	10 ppm	N/A

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152) **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

Data except for the appearance is described as a solvent.

Form

ColorcolorlessAppearanceliquid

Odor characteristic odor

Melting point/freezing point -45 °C Boiling point, initial boiling point and boiling range 82 °C

Flammability
Highly flammable liquid and vapor
Evaporation rate:
no data available

Flammability (solid, gas):

Upper/lower flammability or explosive limits

Upper: 16 % Lower: 4.4 %

Flash point 9 °C / 49 °F
Auto-ignition temperature: 524 °C / 975 °F
Decomposition temperature: no data available
pH no data available

Viscosity (coefficient of viscosity)

no data available

pynamic viscosity

no data available

Solubilities water , organic solvents : freely soluble .

n-Octanol/water partition coefficient:(log Pow) -0.34
Vapour pressure 9.7 kPa
Specific Gravity / Relative density 0.780 - 0.784

Vapour density 1.4

Particle characteristics 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, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetonitrile	>2.000 mg/kg (Rat)	978.8 mg/kg (Rabbit)	16.000 ppm (Rat) 4 h

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

Serious eye damage/ irritation

	Serious eye damage/irritation source information	
Acetonitrile Based on the I	NITE GHS classification results.	

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Acetonitrile	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Acetonitrile	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Acetonitrile	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Acetonitrile	-		A4	-
75-05-8				

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetonitrile	EC50 : Pseudokirchneriella	LC50 : Oryzias latipes	LC50 : Daphnia magna
	subcapitata	>100 mg/L 96 h	>100 mg/L 96 h
	>700 mg/L 72 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	
Acetonitrile	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

Persistence and degradability Degree of decomposition: 65 % by BOD (METI Existing chemical safety inspections)

Bioaccumulative potential

No information available

No information available Mobility in soil Hazard to the ozone layer 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 UN1648

Proper shipping name: **ACETONITRILE**

UN classfication

Subsidiary hazard class

Packing group

Not applicable Marine pollutant

IMDG

UN number UN1648

Proper shipping name: **ACETONITRILE**

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

IATA

UN1648 **UN** number

Proper shipping name: **ACETONITRILE**

UN classfication

Subsidiary hazard class

Packing group

Environmentally Hazardous

Substance

Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category IV, Class I petroleums, dangerous grade 2 water-soluble

Poisonous and Deleterious Deleterious Substances 2nd. Grade

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Transport by Ship and Storage, Attached Table 1)

Notifiable Substances (Law Art.57-2)

Explosives etc., Attached Table 1)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

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

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

Item 4)

Industrial Safety and Health Act (

2024~)

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

Regulations for the carriage and storage of dangerous

Marine Pollution Prevention

goods in ship

Civil Aeronautics Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order

Not applicable

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-)
Acetonitrile 75-05-8 (<100)	Applicable	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.

Record of SDS revisions

The following contents were revised. 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**