



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 07-Apr-2023 Revision Number 1.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Trimethylsilyl Cyanide
Product Code	200-20641,202-20645
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	+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 Classification of the substance or mixture Flammable liquids Acute toxicity - Oral Acute toxicity - Dermal Acute toxicity - Inhalation (Vapors) Chronic aquatic toxicity

Category 2 Category 1 Category 1 Category 1 Category 1

Pictograms



Signal word

#### **Hazard statements**

- H225 Highly flammable liquid and vapor
- H300 Fatal if swallowed
- H310 Fatal in contact with skin
- H330 Fatal if inhaled
- H410 Very toxic to aquatic life with long lasting effects

### **Precautionary statements-(Prevention)**

- Do not get in eyes, on skin, or on clothing
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid release to the environment
- · 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)**

- · Immediately call a POISON CENTER or doctor/physician
- Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth
- · In case of fire: Use CO2, dry chemical, or foam for extinction
- · Collect spillage

### 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

Formula

Other hazards

Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

C4H9NSi

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Trimethylsilylcarbonitrile	96.0	99.21	N/A	2-(3)-391	7677-24-9
	* :		مغمط بالمحاجمة أحجر حاجر المحج		

Note on ISHL No.:

\* 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

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

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

### Handling

### Technical measures

Avoid contact with high temperature objects, spark, and strong oxidizing agents. Could result in a harmful gas by contact with water. Avoid contact with water 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). 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. 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	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 Skin and body protection General hygiene considerations	gas mask for organic gas (JIS T8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: Decomposition temperature: pН Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density **Particle characteristics** 

Colorless - yellow clear ~ nearly clear liquid no data available 10 °C 223 °C Highly flammable liquid and vapor no data available no data available

no data available no data available 1 °C no data available dichloromethane : soluble . no data available no data available no data available 0.790 - 0.796 g/mL no data available 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), Silicon compounds

# Section 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure

no data available

no data available no data available no data available no data available no data available

no data available no data available

# STOT-repeated exposure Aspiration hazard

no data available no data available

# Section 12: ECOLOGICAL INFORMATION Ecotoxicity No information available Other data no data available Persistence and degradability Bioaccumulative potential Mobility in soil 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	UN2929
Proper shipping name:	Toxic liquid, flammable, organic, n.o.s. (Trimethylsilylcarbonitrile)
UN classfication	6.1
Subsidiary hazard class	3
Packing group	
Marine pollutant	Yes
IMDG	
UN number	UN2929
Proper shipping name:	Toxic liquid, flammable, organic, n.o.s. (Trimethylsilylcarbonitrile)
UN classfication	6.1
Subsidiary hazard class	3
Packing group	
Marine pollutant (Sea)	Yes
Transport in bulk according to	
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN2929
Proper shipping name:	Toxic liquid, flammable, organic, n.o.s. (Trimethylsilylcarbonitrile)
UN classfication	6.1
Subsidiary hazard class	3
Packing group	
Environmentally Hazardous	Yes
Substance	

# Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	
TSCA	

Listed Listed

<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, Class I petroleums, dangerous grade 2 Deleterious Substances 3rd. Grade
Industrial Safety and Health Ac	tDangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
Regulations for the carriage and storage of dangerous goods in ship	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance 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 Register Law (2023.4.1-)	Not applicable
Export Trade Control Order	Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Trimethylsilylcarbonitrile 7677-24-9 (96.0)	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	The following contents were revised. Prodauct and company Identification. Fire fighting measures. Handling and storage. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. 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 Z7252(2019). \*JIS: Japanese Industrial Standards

### End of Safety Data Sheet