



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 27-Feb-2024 Revision Number 3.05

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Trimellitic Anhydride
Product Code	205-05252,209-05255
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 / +81-3-3270-8571Recommended usesFor research use only	

# Section 2: HAZARDS IDENTIFICATION

GHS classification	
Classification of the substance or mixture	
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 1
Category 1 respiratory system	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 respiratory system, blood system, immune system	

Pictograms



Danger

# Hazard statements

H318 - Causes serious eye damage

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 May cause an allergic skin reaction
- H370 Causes damage to the following organs: respiratory system

H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system, blood system, immune system

# **Precautionary statements-(Prevention)**

- Wear protective gloves/protective clothing/eye protection/face protection
- In case of inadequate ventilation wear respiratory protection
- Contaminated work clothing should not be allowed out of the workplace
- 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

# 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: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- 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

C9H4O5

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Trimellitic Anhydride	97.0	192.13	(3)-1362	公表	552-30-7
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.

### <u>Storage</u>

#### Safe storage conditions Storage conditions

Safe packaging material Incompatible substances Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Polyethylene, Polypropylene 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
Trimellitic Anhydride	Ceiling: 0.004 mg/m <sup>3</sup>	N/A	STEL: 0.002 mg/m <sup>3</sup> inhalable
552-30-7	TWA: 0.0005 mg/m <sup>3</sup> OEL		fraction and vapor
	Skin		TWA: 0.0005 mg/m <sup>3</sup> inhalable
			fraction and vapor
			Skin

### Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection General hygiene considerations Dust mask ( JIS T 8151 ) chemical protective gloves ( JIS T 8116 ) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

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 - slightly pale yellow
Appearance	flakes
Odor	no data available
Melting point/freezing point	163 - 171 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	acetone : Very soluble. Ethanol , Hot water : soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	1.6
Vapour density	no data available
Particle characteristics	no data available

# Section 10: STABILITY AND REACTIVITY

## Stability

Reactivity Chemical stability	no data available Stable under recommended storage conditions.	
Hazardous reactions	5	
None under normal processing		
Conditions to avoid		
Extremes of temperature and direct sunlight		
Incompatible materials		
Strong oxidizing agents		
Hazardous decomposition product	S	
Carbon monooxide (CO), Carbon	dioxide (CO2)	

# Section 11: TOXICOLOGICAL INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trimellitic Anhydride	2030 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.33 mg/L (Rat) 4 h
Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation g source information
Trimellitic Anhydride	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
5	classification results	classification results	classification results.

	vapor- source information	source information	source information
Trimellitic Anhydride	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
-	classification results.	classification results	classification results
Skin irritation/corrosion			
Chemi	cal Name	Skin corrosion/irr	itation source information
Trimellitic	c Anhydride	Based on the NITE GHS cla	ssification results
Serious eye damage/ irritation			
Chemi	cal Name		/irritation source information
	c Anhydride	Based on the NITE GHS cla	ssification results
Respiratory or skin sensitizatio			
Chemi	cal Name		ensitization source information
	c Anhydride	Based on the NITE GHS cla	ssification results
Reproductive cell mutagenicity			
Chemical Name			encity source information
Trimellitic Anhydride		Based on the NITE GHS cla	ssification results.
Carcinogenicity			
	cal Name		ity source information
Trimellitic	c Anhydride	Based on the NITE GHS cla	ssification results.
Reproductive toxicity			
	cal Name	Reproductive to	xicity source information
Trimellitio	c Anhydride	Based on the NITE GHS cla	ssification results
STOT-single exposure	· ·	-	
Chemi	cal Name	STOT -single exp	osure- source information
Trimellitic	c Anhydride	Based on the NITE GHS classification results	
STOT-repeated exposure			
	cal Name		posure- source information
Trimellitic	c Anhydride	Based on the NITE GHS cla	ssification results
Aspiration hazard			
Chemie	cal Name	•	ard source information
		Based on the NITE GHS cla	

# Section 12: ECOLOGICAL INFORMATION

# Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Trimellitic Anhydride	N/A	N/A	EC50:Daphnia magna
			>792 ma/l

## Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Trimellitic Anhydride	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 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 Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication	Not regulated -
Subsidiary hazard class Packing group Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)
	Notifiable Substances (Law Art.57-2)
Industrial Safety and Health Act (	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u>	
Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Chemical Substances and	
Regulation of Their	
Manufacture, etc	
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	
Register Law	
(2023.4.1-)	
Class 1 - No.	401
Export Trade Control Order	Not applicable
Air Pollution Control Law	Hazardous Air Pollutants
All Follution Control Law	

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-)
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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-)
Trimellitic Anhydride 552-30-7(97.0)	-	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. 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