



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 12-May-2023 Revision Number 3.03

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Yttrium Oxide, -30um, 99.9% **Product Name** 257-00192 **Product Code** 

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

Category 2B Serious eye damage/eye irritation

**Pictograms** 

Warning Signal word

**Hazard statements** 

H320 - Causes eye irritation

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

· Wash face, hands and any exposed skin thoroughly after handling

#### Precautionary statements-(Response)

- 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

## Precautionary statements-(Storage)

Not applicable

## Precautionary statements-(Disposal)

Not applicable

**Others** 

Other hazards Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

**Formula** Y203

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Yttrium Oxide	99.9 ( subtracting	225.81	(1)-560	*	1314-36-9

method )

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

## 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**

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** Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

Safe packaging material Glass

Incompatible substances No information available

## 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
Yttrium Oxide	N/A	N/A	TWA: 1 mg/m <sup>3</sup> Y
1314-36-9			

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

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color white Appearance powder

Odor no data available

Melting point/freezing point 2410 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
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
no data available
no data available
pH
no data available

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

**Solubilities** water: practically insoluble, or insoluble.

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

Specific Gravity / Relative density 5.01

Vapour densityno data availableParticle characteristicsno data available

## **Section 10: STABILITY AND REACTIVITY**

## **Stability**

Reactivity no data available

**Chemical stability** Stable under recommended storage conditions.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

No information available

Hazardous decomposition products

No information available

## **Section 11: TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

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

Chemical Name Acute toxicity -inhalation		Acute toxicity -inhalation dust- Acute toxicity -inhalation mist-	
	vapor- source information	source information	source information
Yttrium Oxide	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	
Yttrium Oxide	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		

Chemical Name	Serious eye damage/irritation source information	
Yttrium Oxide	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		

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

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Yttrium Oxide	Based on the NITE GHS classification results.
0	

Carcinogenicity

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

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Yttrium Oxide	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	

Based on the NITE GHS classification results.

STOT-repeated exposure

Yttrium Oxide

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

sniration hazard

Aspiration nazaru		
	Chemical Name	Aspiration Hazard source information
	Yttrium Oxide	Based on the NITE GHS classification results.

## **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source	Long-term (chronic) hazardous to the aquatic environment source	
	information	information	
Yttrium Oxide	Based on the NITE GHS classification Based on the NITE GHS classific		
	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 Not regulated

UN number -

Proper shipping name: UN classfication

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number -

Proper shipping name: UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number Proper shipping name:

UN classfication

Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

Not applicable

Substance

## **Section 15: REGULATORY INFORMATION**

**International Inventories** 

TSCA Listed

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,

Para.1, Enforcement Order Art.18)

Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

No.9)No.54 Not applicable

Regulations for the carriage

and storage of dangerous

Civil Aeronautics Law

goods in ship

Not applicable 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) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Yttrium Oxide 1314-36-9 ( 99.9 ( subtracting method ) )	-	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. Prodauct and company Identification. Exposure controls/personal protection. Toxicological 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**