



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 05-Jan-2023 Revision Number 2.05

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Aluminium, Shot
Product Code	016-01745,012-01742
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 Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only

# Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Specific target organ toxicity (single exposure) Category 1 respiratory system Specific target organ toxicity (repeated exposure) Category 1 respiratory system

Category 1 Category 1

Pictograms



Danger

#### Hazard statements

H370 - Causes damage to the following organs: respiratory system

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

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

- 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

#### 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

AI

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Aluminium	99.0 (subtracting method)	26.982	-	N/A	7429-90-5

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

dry sand, dry diatomaceous earth, dry slaked lime

Unsuitable extinguishing media

Do not use straight streams

### Specific hazards arising from the chemical product

Produce flammable gases on contact with water

### 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 water and moisture. Avoids contact with acids. 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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Storage

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. Packed with an inert gas. Polyethylene, Polypropylene steam, Acids, Alkali

### 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
Aluminium	TWA: 2 mg/m <sup>3</sup> OEL	N/A	TWA: 1 mg/m <sup>3</sup> respirable
7429-90-5	TWA: 0.5 mg/m <sup>3</sup> OEL		particulate matter

#### Personal protective equipment **Respiratory protection**

Hand protection

Eve protection

Dust mask Protection gloves 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

silver white
shot
Odorless
658.8 °C
2060 °C
no data available
no data available
no data available
no data available
no data available
no data available

Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics 645 °C no data available no data available no data available Dilute Hydrochloric Acid : soluble . no data available no data available 2.702 no data available no data available

# Section 10: STABILITY AND REACTIVITY

### Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight, Moisture
 Incompatible materials

 steam, Acids, Alkali
 Hazardous decomposition products

 Metal oxides
 Metal oxides

# Section 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity

Aluminium Based on the NITE GHS Based on the NITE GHS Classification results classification results	Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
classification results classification results classification results	Aluminium	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	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
, uarrinarri			Based on the NITE GHS classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Aluminium	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Aluminium	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Aluminium	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Aluminium	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Aluminium	Based on the NITE GHS classification results.

#### **Reproductive toxicity**

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

STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Aluminium	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Aluminium	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Aluminium	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 information	Long-term (chronic) hazardous to the aquatic environment source information
Aluminium		Based on the NITE GHS classification 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 Marine pollutant	Not regulated - Not applicable
IMDG UN number Broner chinning name:	Not regulated
Proper shipping name: UN classfication Subsidiary hazard class Packing group	
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable No information available
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 EINECS/ELINCS TSCA	Listed Listed	
Japanese regulations		
Fire Service Act	Not applicable	
Poisonous and Deleterious	Not applicable	
Substances Control Law		
Industrial Safety and Health Act Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table		
	No.9)No.37	
Regulations for the carriage	Not applicable	
and storage of dangerous		
goods in ship		
Civil Aeronautics Law	Not applicable	
Pollutant Release and Transfer	Not applicable	
Register Law		
(~2023.3.31)		
Pollutant Release and Transfer	Not applicable	
Register Law		
(2023/4/1~) Water Pollution Control Act	Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)	
Export Trade Control Order	Not applicable	

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(~2023.3.31)
		(~2024.3.31)	
Aluminium	-	Applicable	-
7429-90-5 ( 99.0			
(subtracting method))			

# 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
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#### 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