



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 17-Jan-2023 Revision Number 3.02

Category 2A

Category 3

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Aluminium Sulfate		
Product Code	018-09745		
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

+81-6-6203-3741 / +81-3-3270-8571 For research use only

restrictions on use

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification Classification of the substance or mixture Serious eye damage/eye irritation Specific target organ toxicity (single exposure)

Category 3 Respiratory irritation

Acute aquatic toxicity Category 2

**Pictograms** 



Signal word

Warning

#### **Hazard statements**

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H401 - Toxic to aquatic life

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Avoid release to the environment

## 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
- 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

#### Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- · 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 Al2(SO4)3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Aluminum Sulfate	85.0	342.15	(1)-25	*	10043-01-3

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.

#### Eve 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

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

#### 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 Polypropylene

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** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

no data available

Personal protective equipment

Respiratory protection
Hand protection
Dust mask
Protection gloves

**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 - nearly white

**Appearance** powder

Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
no data available
no data available
no data available
no data available

Flammability (solid, gas): Upper/lower flammability or

\_\_\_\_\_\_

explosive limits

no data available Upper: no data available Lower: Flash point no data available Auto-ignition temperature: no data available **Decomposition temperature:** no data available pН acidic (aq.) Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities water: freely soluble. Ethanol: practically insoluble, or

insoluble.

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

Specific Gravity / Relative density 2.71

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, Moisture

Incompatible materials

No information available

## Hazardous decomposition products

Sulfur oxides (SOx), Metal oxides

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Sulfate	1930 mg/kg (Rat)	N/A	N/A

Skin irritation/corrosion no data available Serious eye damage/ irritation no data available Respiratory or skin sensitization no data available Reproductive cell mutagenicity no data available Carcinogenicity no data available no data available Reproductive toxicity STOT-single exposure no data available STOT-repeated exposure no data available **Aspiration hazard** no data available

# Section 12: ECOLOGICAL INFORMATION

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Aluminum Sulfate	N/A	LC50 : Carassius auratus	EC50 : Daphnia magna
		100 mg/L 96 h	136 mg/L 15 min
		LC50 : Gambusia affinis	_

37 mg/L 96 h

Other data no data available

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

Substance

Not applicable

## **Section 15: REGULATORY INFORMATION**

**International Inventories** 

EINECS/ELINCS Listed
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.37

Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable

Marine Pollution Prevention Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

∟aw

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 Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Aluminum Sulfate 10043-01-3 ( 85.0 )	-	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

## **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**