



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 3.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Fosetyl Standard	
Product Code	065-01813	
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	+81-6-6203-3741 / +81-3-3270-8571 For research use only	

Section 2: HAZARDS IDENTIFICATION

Seek expert judgment when using for purposes other than those recommended.

GHS classification

Restrictions on use

Classification of the substance or mixture

Serious eye damage/eye irritation

Specific target organ toxicity (single exposure)

Category 3

Respiratory irritation, Narcotic effects

Category 3

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 respiratory system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms



Hazard statements

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

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

Precautionary statements-(Prevention)

- Wear protective gloves/protective clothing/eye protection/face protection
- 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
- · Use only outdoors or in a well-ventilated area
- Avoid release to the environment

Precautionary statements-(Response)

· Get medical advice/attention if you feel unwell

- 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 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
- · Collect spillage

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 C6H18AlO9P3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Fosetyl Aluminium	98.0	354.10	N/A	2-(7)-331	39148-24-8

Note on ISHL No.:

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 contac

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

^{*} in the table means announced chemical substances.

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.

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.

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 Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

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

ColorwhiteAppearancepowder

Odor

Melting point/freezing point

Boiling point, initial boiling point and boiling range
Flammability

Evaporation rate:

Flammability (solid, gas):

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

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
pecomposition temperature:
no data available
ph no data available
Viscosity (coefficient of viscosity)
no data available
Dynamic viscosity
no data available

Solubilities water: free soluble. Ethanol, acetone: practically insoluble, or

insoluble.

n-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno 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

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Phosphorus oxide

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Toute texterly					
	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
	Fosetyl Aluminium	10600 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.11 mg/L (Rat) 4 h	

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
. 0001,7.7.0011111			Based on the NITE GHS classification results.

Chemical Name Acute toxicity -inhalation vapor- source information		Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Fosetyl Aluminium	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
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Aspiration Hazard source information

Based on the NITE GHS classification results.

Fosetyl Aluminium	Based on the NITE GHS classification results.				
Serious eye damage/ irritation					
Chemical Name	Serious eye damage/irritation source information				
Fosetyl Aluminium	Based on the NITE GHS classification results.				
Respiratory or skin sensitization					
Chemical Name	Respiratory or Skin sensitization source information				
Fosetyl Aluminium	Based on the NITE GHS classification results.				
Reproductive cell mutagenicity					
Chemical Name	germ cell mutagencity source information				
Fosetyl Aluminium	Based on the NITE GHS classification results.				
Carcinogenicity					
Chemical Name	Carcinogenicity source information				
Fosetyl Aluminium	Based on the NITE GHS classification results.				
Reproductive toxicity					
Chemical Name	Reproductive toxicity source information				
Fosetyl Aluminium	Based on the NITE GHS classification results.				
STOT-single exposure					
Chemical Name	STOT -single exposure- source information				
Fosetyl Aluminium	Based on the NITE GHS classification results.				
STOT-repeated exposure					
Chemical Name	STOT -repeated exposure- source information				
Fosetyl Aluminium	Based on the NITE GHS classification results.				

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Aspiration hazard

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Fosetyl Aluminium	EC50 : Bacillariophyceae	N/A	N/A
•	0.84 mg/L 7 d		

Other data

Other data				
Chemical Nam	ne Short-term (acut	e) hazardous to the	Long-term (chronic) h	azardous to the
	aquatic environmen	t source information ac	quatic environment se	ource information
Fosetyl Aluminiu	um Based on the NITE C	SHS classification Ba	ased on the NITE GHS	classification
	results.	re	esults.	

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

Chemical Name Fosetyl Aluminium

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: Environmentally hazardous substance, solid, n.o.s. (Fosetyl Aluminium)

UN classfication

Subsidiary hazard class

Packing group Ш Yes Marine pollutant

IMDG

UN3077 **UN** number

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Fosetyl Aluminium)

UN classfication

Subsidiary hazard class

Ш **Packing group** Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Fosetyl Aluminium)

UN classfication

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

Substance

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~)

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Transport by Ship and Storage, Attached Table 1)

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification

for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No.

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)	Pollutant Release and Transfer Register Law (2023.4.1-)
Fosetyl Aluminium 39148-24-8 (98.0)	-	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