



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 22-Feb-2024

Revision Number 8.07

Category 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Cadmium Acetate Dihydrate	
Product Code	037-00052,031-00055
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 useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Serious eye damage/eye irritation
Category 2A
Germ cell mutagenicity
Carcinogenicity
Category 1
Reproductive Toxicity
Specific target organ toxicity (single exposure)
Category 1
Category 1
respiratory system, digestive system

Specific target organ toxicity (repeated exposure)

Category 1 respiratory system, kidneys, bone

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms



Hazard statements

H319 - Causes serious eye irritation

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: respiratory system, digestive system

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

Precautionary statements-(Prevention)

- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood

- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Do not eat, drink or smoke when using this product
- · Avoid release to the environment

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
- If eye irritation persists: Get medical advice/attention
- Collect spillage

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 (CH3COO)2Cd-2H2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Cadmium acetate	98.0	266.53	2-693	*	5743-04-4
dihydrate					

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.

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

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

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.

Storage

Safe storage conditions

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

Keep container tightly closed. Store locked up.

Safe packaging material Polypropylene, Polyethylene 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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Cadmium acetate dihydrate	TWA: 0.05 mg/m ³ OEL	ISHL/ACL: 0.05 mg/m ³	TWA: 0.01 mg/m ³ Cd
5743-04-4	ISHL/ACL: 0.05 mg/m ³		TWA: 0.002 mg/m ³ Cd
	· ·		respirable particulate matter

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

Color white

Appearance crystals - crystalline powder

Odor characteristic odor

Melting point/freezing point 255 °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

no data available Upper: no data available Lower: no data available Flash point **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available 5.0 - 8.0 (50g/L, 25°C) Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available **Solubilities** water, Ethanol: soluble.

n-Octanol/water partition coefficient:(log Pow)

Vapour pressure
Specific Gravity / Relative density
Napour density

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

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Cadmium acetate dihydrate	360 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Cadmium acetate dihydrate	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 vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Cadmium acetate dihydrate			Based on the NITE GHS
	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Cadmium acetate dihydrate	Based on the NITE GHS classification results.	

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information		
Cadmium acetate dihydrate	Based on the NITE GHS classification results.		

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information	
Cadmium acetate dihydrate	Based on the NITE GHS classification results.	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information		
Cadmium acetate dihydrate	Based on the NITE GHS classification results.		
	·		

Carcinogenicity

Carcinogenicity source information
the NITE GHS classification results.
the N

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Cadmium acetate dihydrate	Known	Group 1	A2	Group 1
5743-04-4				

Reproductive toxicity

Representations			
Chemical Name	Reproductive toxicity source information		
Cadmium acetate dihydrate	Based on the NITE GHS classification results.		

STOT-single exposure

Chemical Name	STOT -single exposure- source information	
Cadmium acetate dihydrate	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name		STOT -repeated exposure- source information	
	Cadmium acetate dihydrate	Based on the NITE GHS classification results.	

Aspiration hazard

-	topiration nazara			
Chemical Name		Aspiration Hazard source information		
ſ	Cadmium acetate dihydrate	Based on the NITE GHS classification results.		

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Cadmium acetate dihydrate	N/A	LC50 : Oncorhynchus mykiss	N/A
		0.013 mg/L 96 h	

Other data no data available

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer
No ir

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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cadmium acetate dihydrate)

UN classfication Subsidiary hazard class

Packing group III
Marine pollutant Yes

IMDG

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cadmium acetate dihydrate)

UN classification 9

Subsidiary hazard class

Packing group III
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. (Cadmium acetate dihydrate)

UN classification 9

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 3rd. Grade

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) Group 2 Specified Chemical Substance

Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2,

Para.1)

Industrial Safety and Health Act (

2024~)
Regulations for the carriage

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

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

and storage of dangerous goods in ship

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

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

Pollutant Release and Transfer Specified Class 1 No.

Register Law (2023.4.1-)

Specified Class 1-No. 79

Water Pollution Control Act Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating

Wastewater Standards Art.1)

Export Trade Control Order Not applicable

Air Pollution Control Law Hazardous Air Pollutants

Soil Contamination Control LawDesignated Hazardous Substances

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
Cadmium acetate dihydrate 5743-04-4 (98.0)	Applicable	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