



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 11-Dec-2025 Revision Number 5.07

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Cadmium Hydroxide
Product Code	033-00152

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

Germ cell mutagenicityCategory 1BCarcinogenicityCategory 1AReproductive ToxicityCategory 1BSpecific target organ toxicity (single exposure)Category 1

Category 1 respiratory system

Specific target organ toxicity (repeated exposure) Category 1

Category 1 respiratory system, kidneys, bone

Pictograms



Signal word

Danger

Hazard statements

H340 - May cause genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H370 - Causes damage to the following organs: respiratory 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
- 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 Cd(OH)2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Cadmium hydroxide	95.0	146.43	(1)-1047	*	21041-95-2

Note on ISHL No.:

* in the table means announced chemical substances.

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

Avoid contact with acidic substances 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 Polyethylene Incompatible substances Strong acids

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 hydroxide	TWA: 0.05 mg/m ³ OEL	ISHL/ACL: 0.05 mg/m ³	TWA: 0.01 mg/m ³ Cd
21041-95-2	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 - nearly white

Appearance powder

Odor no data available

Melting point/freezing point 300 °C

Boiling point, initial boiling point and boiling range no data available Flammability no data available **Evaporation rate:** no data available Flammability (solid, gas): no data available

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

Dynamic viscosity no data available

Solubilities dil. hydrochloric acid : soluble . water : practically insoluble,or

insoluble.

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

Specific Gravity / Relative density 4.79

no data available Vapour density **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

no data available Reactivity

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 acids

Hazardous decomposition products

Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Cadmium hydroxide	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
1	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
Guairii ii yai okiao			Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information		
Cadmium hydroxide	Based on the NITE GHS classification results.		
Serious eye damage/ irritation			

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

Chemical Name Respiratory or Skin sensitization source information

Cadmium hydroxide	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Cadmium hydroxide	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Cadmium hydroxide	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
Cadmium hydroxide	Known	Group 1	A2	Group 1
21041-95-2		_		

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
Cadmium hydroxide	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Ecotoxicity no data available

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
Cadmium hydroxide	Based on the NITE GHS classification	Based on the NITE GHS classification	
	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

W01W0103-0015 JGHEEN Cadmium Hydroxide

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

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

Substances designated by the Minister of Health, Labor and Welfare as carcinogenic(Ordinance on Industrial Safety and Health Art.577, Para.2)

Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2,

Para.1) Not applicable

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable

Marine Pollution Prevention Marine pollutants (P and PP substances)

Law

Pollutant Release and Transfer Specified Class 1 No.

Register Law (2023.4.1-)

Specified Class 1-No. 75

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

Wastewater Standards Art.1)

Air Pollution Control Law Hazardous Air Pollutants

Soil Contamination Control LawDesignated Hazardous Substances

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-)
Cadmium hydroxide 21041-95-2 (95.0)	Applicable	Applicable	Applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

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 revisionsThe following contents were revised. Hazards identification. Ecological 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