



SAFETY DATA SHEET

Issue Date 17-Nov-2025 Revision Number 2.08

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Cadmium Sulfate-Water (3/8)

Other means of identification

Product Code(s) 033-16402,037-16405

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.

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

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

1-2, Doshomachi 3-Chome, E. Warner Avenue, Santa Ana, CA 92705-5505, U.S.A.: +1 949 261 7800

Chuo-ku Osaka 540-8605, Japan Fax: +1 949 261 6522

Tel: +81-6-6203-3741 Fax: +81-6-6201-5964

2. HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

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

Category 1 kidneys

Pictograms



Signal word Danger

Hazard statements

H340 - May cause genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

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

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 or concerned: Get medical advice/attention

Precautionary statements-(Storage)

Store locked up

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula 3CdSO4-8H2O

Chemical Name	Molecular weight	CAS RN	Weight-%
Cadmium sulfate hydrate (3CdSO4 . 8H2O)	769.55	7790-84-3	99.0

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

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.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical none. Impact

Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective
Ensure adequate ventilation, especially in confined areas.

equipment and emergency

procedures

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with strong oxidizing agents.

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

Keep container tightly closed. Store locked up.

Packaging materials Polyethylene. Polypropylene.

Incompatible materials Strong oxidizing agents.

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 Not applicable

	Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
Ī	Cadmium sulfate hydrate	TWA: 0.01 mg/m ³ Cd	N/A	IDLH: 9 mg/m ³ Cd dust and
	(3CdSO4 . 8H2O)	TWA: 0.002 mg/m ³ Cd		fume
	7790-84-3	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

Appearancecrystals - crystalline powderOdorno data availablepH4.0 - 7.0 (50g/L, 25°C)Melting point/freezing pointno data available

Boiling point, initial boiling point and boiling range no data available no data available

Evaporation rate:no data available
Flammability (solid, gas):
no data available

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data availableVapour pressureno data availableVapour densityno data available

Specific Gravity / Relative density 3.08

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

n-Octanol/water partition coefficient:(log Pow)no data availableAuto-ignition temperature:no data availableDecomposition temperature:no data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data availableParticle characteristicsno data available

10. STABILITY AND REACTIVITY

Stability

Chemical stability Stable under recommended storage conditions.

Reactivity no data available

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Sulfur oxides (SOx), Metal oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name Acute toxicity -oral- source information		Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Cadmium sulfate hydrate (3CdSO4 . 8H2O)			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	
Cadmium sulfate hydrate (3CdSO4.	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS	
8H2O)	classification results.	classification results.	classification results.	

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Based on the NITE GHS classification results.
Serious eve damage/ irritation	

Chemical Name
Serious eye damage/irritation source information
Cadmium sulfate hydrate (3CdSO4 . 8H2O)
Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	

Reproductive cen matagementy	
Chemical Name	germ cell mutagencity source information

Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Based on the NITE GHS classification results.
Carcinogenicity	

Chemical Name	Carcinogenicity source information
Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Based on the NITE GHS classification results.

	Chemical Name	NTP	IARC	ACGIH	JSOH
ſ	Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Known	N/A	A2	Group 1
	7790-84-3				· ·

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Cadmium sulfate hydrate (3CdSO4 . 8H2O)	Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Cadmium sulfate hydrate (3CdSO4 , 8H2O)	Based on the NITE GHS classification results.

12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility

no data available

Mobility in soilNo information availableOther DataNo information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDisposal should be in accordance with applicable regional, national and local laws and

regulations.

Precautionary including method of Disposal should be in accordance with applicable regional, national and local laws and **disposing contaminated packaging** regulations.

14. TRANSPORT INFORMATION

DOT Not regulated Not applicable

Proper shipping name: UN classfication

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IATA Not regulated

UN/ID No

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

IMDG Not regulated

UN/ID No

Proper shipping name: **UN classfication** Subsidiary hazard class Packing group

Marine pollutant (Sea) Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Cadmium sulfate hydrate (3CdSO4 . 8H2O) - 7790-84-3	7790-84-3	99.0	0.1

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Cadmium sulfate hydrate (3CdSO4 . 8H2O) 7790-84-3	N/A	X	N/A	N/A

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

Chemical Name	California Proposition 65	
Cadmium sulfate hydrate (3CdSO4 . 8H2O) - 7790-84-3	Carcinogen	

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Cadmium sulfate hydrate (3CdSO4	X	N/A	X
. 8H2O)			
7790-84-3			

U.S. EPA Label Information

EPA Pesticide Registration NumberNot applicable

16. OTHER INFORMATION

Issue Date 17-Nov-2025

Revision Note

No information available

Disclaimer

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, use, processing, storage, transportation, disposal and release 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.

End of Safety Data Sheet