



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 4.090001

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Indium(III) Sulfate n-Hydrate
Product Code	094-01462

Supplier FUJIFILM Wako Pure Chemical Corporation

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**Emergency telephone number** +81-6-6203-3741 / +81-3-3270-8571

**Recommended uses** For research use only

**Restrictions on use**Seek 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

### **Pictograms**



Signal word

Warning

### **Hazard statements**

H319 - Causes serious eye irritation

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

### **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

#### Precautionary statements-(Storage)

Not applicable

# **Precautionary statements-(Disposal)**

Not applicable

Others

Other hazards Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

#### **Formula**

#### In2(SO4)3-nH2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Diindium tris(sulphate)	75.0-85.0(as	517.82(as anhydrous)	(1)-751	*	13464-82-9
	anhydrous)				

#### 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 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

<sup>\*</sup> in the table means announced chemical substances.

#### 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.

Safe packaging material Incompatible substances

Strong acids

Glass

### 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
Diindium tris(sulphate)	N/A	N/A	TWA: 0.1 mg/m <sup>3</sup> In
13464-82-9			

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** crystalline powder or mass

**Odor** no data available

Melting point/freezing point 250 °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

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
Decomposition temperature:
no data available
pH
no data available
viscosity (coefficient of viscosity)
no data available

**Dynamic viscosity** no data available **Solubilities** water: soluble. n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available

Specific Gravity / Relative density 3.44

Vapour density no data available Particle characteristics no 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

Incompatible materials

Strong acids

**Hazardous decomposition products** 

Sulfur oxides (SOx), Metal oxides

### **Section 11: TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Diindium tris(sulphate)	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
Diindium tris(sulphate)	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	
Diindium tris(sulphate)	Based on the NITE GHS classification results.	
0		

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information	
Diindium tris(sulphate)	Based on the NITE GHS classification results.	

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Diindium tris(sulphate)	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cen matagenerty source information
Diindium tris(sulphate)	Based on the NITE GHS classification results.
Carcinogenicity	

Chemical Name	Carcinogenicity source information
Diindium tris(sulphate)	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Diindium tris(sulphate)				Group 2A
13464-82-9				

Reproductive toxicity

П	Chemic	al Name	Reproductive toxicity source information

Diindium tris(sulphate)	Based on the NITE GHS classification results.			
STOT-single exposure				
Chemical Name	STOT -single exposure- source information			
Diindium tris(sulphate)	Based on the NITE GHS classification results.			
STOT-repeated exposure				
Chemical Name	STOT -repeated exposure- source information			
Diindium tris(sulphate)	Based on the NITE GHS classification results.			
Aspiration hazard				
Chemical Name	Aspiration Hazard source information			
Diindium tris(sulphate)	Based on the NITE GHS classification results.			

### **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information 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
Diindium tris(sulphate)	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability No information available **Bioaccumulative potential** No information available Mobility in soil No information available Hazard to the ozone layer 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** 

Not applicable

**Substance** 

### **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Group 2 Specified Chemical Substance Notifiable Substances (Law Art.57-2)

Industrial Safety and Health Act (

2024.)

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

2024~)

Regulations for the carriage and storage of dangerous

Not applicable

goods in ship

Civil Aeronautics Law Not applicable
Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

, Class 1 - No. 44

**Export Trade Control Order** Not applicable

Air Pollution Control Law Hazardous Air Pollutants

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-)
Diindium tris(sulphate) 13464-82-9 ( 75.0-85.0(as anhydrous) )	-	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** 

The following contents were revised. 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**