

## SAFETY DATA SHEET

According to JIS Z 7253:2019  
**Revision date** 31-Oct-2023  
 Revision Number 1.03

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Correction sample for HM1000A DOTP Fragment
<b>Product Code</b>	030-25481

<b>Supplier</b>	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
<b>Emergency telephone number</b>	+81-6-6203-3741 / +81-3-3270-8571
<b>Recommended uses</b>	For research use only
<b>Restrictions on use</b>	Seek expert judgment when using for purposes other than those recommended.

## Section 2: HAZARDS IDENTIFICATION

## GHS classification

## Classification of the substance or mixture

<b>Specific target organ toxicity (single exposure)</b>	Category 3
Category 3 Respiratory irritation	
<b>Specific target organ toxicity (repeated exposure)</b>	Category 1
Category 1 respiratory system	

## Pictograms



**Signal word** Danger

## Hazard statements

- H335 - May cause respiratory irritation
- H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system

## Precautionary statements-(Prevention)

- 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

## Precautionary statements-(Response)

- Get medical advice/attention if you feel unwell
- 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

## 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      Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Poly(vinyl chloride)	< 80	N/A	(6)-66	*	9002-86-2
Bis(2-ethylhexyl) terephthalate	20	390.62	(3)-4053	4-(7)-1490	6422-86-2
Calcium Stearate	0.2	607.02	(9)-1677,(2)-611	*	1592-23-0
Zinc stearate	0.2	632.32	(2)-615	*	557-05-1
Stearic Acid	0.2	284.48	(2)-609,(2)-608	*	57-11-4

**Note on ISHL No.:** \* in the table means announced chemical substances.

**Impurities and/or Additives:** Not applicable

### 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**

Water spray (fog), Carbon dioxide (CO<sub>2</sub>), 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

**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 contaminant 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.

##### 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 hand- and eye-wash facility. And display their position clearly.

### Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Poly(vinyl chloride) 9002-86-2	N/A	N/A	TWA: 1 mg/m <sup>3</sup> respirable particulate matter
Calcium Stearate 1592-23-0	N/A	N/A	TWA: 10 mg/m <sup>3</sup> inhalable particulate matter except stearates of toxic metals TWA: 3 mg/m <sup>3</sup> respirable particulate matter except stearates of toxic metals
Zinc stearate 557-05-1	N/A	N/A	TWA: 10 mg/m <sup>3</sup> inhalable particulate matter TWA: 3 mg/m <sup>3</sup> respirable particulate matter TWA: 10 mg/m <sup>3</sup> inhalable particulate matter except stearates of toxic metals TWA: 3 mg/m <sup>3</sup> respirable particulate matter except stearates of toxic metals
Stearic Acid 57-11-4	N/A	N/A	TWA: 10 mg/m <sup>3</sup> inhalable particulate matter TWA: 3 mg/m <sup>3</sup> 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

**Skin and body protection** Long-sleeved work clothes

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form**

**Color** white and (Brown, Black <10%)

**Appearance** mass

**Odor** no data available

**Melting point/freezing point** no data available

**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**

**Upper:** no data available

**Lower:** 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** No data available

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

**Vapour pressure** no data available

**Specific Gravity / Relative density** no data available

**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 oxidizing agents

**Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Halides, Metal oxides

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium Stearate	> 10 g/kg ( Rat )	N/A	N/A
Zinc stearate	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 50 mg/L ( Rat ) 4 h
Stearic Acid	4600 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Zinc stearate	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
Poly(vinyl chloride)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results	Based on the NITE GHS classification results.

**Skin irritation/corrosion**

Chemical Name	Skin corrosion/irritation source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results

**Serious eye damage/ irritation**

Chemical Name	Serious eye damage/irritation source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results

**Respiratory or skin sensitization**

Chemical Name	Respiratory or Skin sensitization source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results

**Reproductive cell mutagenicity**

Chemical Name	germ cell mutagenicity source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results.

**Carcinogenicity**

Chemical Name	Carcinogenicity source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Poly(vinyl chloride) 9002-86-2	-	Group 3	-	-

**Reproductive toxicity**

Chemical Name	Reproductive toxicity source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results.

**STOT-single exposure**

Chemical Name	STOT -single exposure- source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results

**STOT-repeated exposure**

Chemical Name	STOT -repeated exposure- source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results

**Aspiration hazard**

Chemical Name	Aspiration Hazard source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Zinc stearate	N/A	N/A	EC50 : <i>Daphnia magna</i> > 100 mg/L 48 h

**Other data**

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
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	aquatic environment source information	aquatic environment source information
Poly(vinyl chloride)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Zinc stearate	Based on the NITE GHS classification results	Based on the NITE GHS classification results

<b>Persistence and degradability</b>	No information available
<b>Bioaccumulative potential</b>	No information available
<b>Mobility in soil</b>	No information available
<b>Hazard to the ozone layer</b>	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

<b>ADR/RID</b>	Not regulated
UN number	-
Proper shipping name:	
UN classification	
Subsidiary hazard class	
Packing group	
Marine pollutant	Not applicable
<b>IMDG</b>	Not regulated
UN number	-
Proper shipping name:	
UN classification	
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available
<b>IATA</b>	Not regulated
UN number	-
Proper shipping name:	
UN classification	
Subsidiary hazard class	
Packing group	
Environmentally Hazardous Substance	Not applicable

### Section 15: REGULATORY INFORMATION

#### Japanese regulations

Fire Service Act	Not applicable
Poisonous and Deleterious Substances Control Law	Not applicable
Industrial Safety and Health Act	Not applicable
Regulations for the carriage and storage of dangerous goods in ship	Not applicable
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable

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Register Law  
(2023.4.1-)  
Export Trade Control Order      Not 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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.  
Chemical Dictionary, Kyouritsu Publishing Co., Ltd.  
etc

### Record of SDS revisions

The following contents were revised. Product and company Identification. Hazards identification. Composition/information on ingredients. Exposure controls/personal protection. Toxicological information. 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**