



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 17-Feb-2023 Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ninhydrin	
Product Code	205-02773,209-02771,203-02774,207-02772,201-02775	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964	
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 Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only	

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Skin corrosion/irritation Serious eye damage/eye irritation

Category 4 Category 2 Category 2A

Pictograms



Warning

Hazard statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H302 Harmful if swallowed

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · 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
- · IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary statements-(Storage)

Not applicable 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

C9H6O4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ninhydrin	=<100	178.14	(4)-584	公表	485-47-2
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 (CO2), 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 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 Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Polyethylene Safe packaging material 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

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment	
Respiratory protection	
Hand protection	
Eye protection	
Skin and body protection	
General hygiene considerations	

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or

White - slightly yellow crystals - crystalline powder no data available 240 °C (dec.) no data available no data available no data available no data available

explosive limits Upper: Lower: Flash point Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics

no data available Ethanol : freely soluble . water : sparingly soluble . no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityMay be altered by light.Hazardous reactionsMay be altered by light.None under normal processingConditions to avoidConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsHazardous decomposition productsCarbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer

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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	Not regulated - Not applicable
Marine polititant	
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea)	Not regulated - Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Environmentally Hazardous Substance	Not regulated - Not applicable

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
(2023/4/1~) Export Trade Control Order	Not applicable
Export Trade Control Order	Not applicable

Section 16: OTHER INFORMATION

sources for data etc. http://v IATA c RTEC Japan Diction	National Institute of Technology and Evaluation (JAPAN) www.safe.nite.go.jp/japan/db.html angerous Goods Regulations S:Registry of Toxic Effects of Chemical Substances Industrial Safety and Health Association GHS Model SDS ary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. cal Dictionary, Kyouritsu Publishing Co., Ltd.
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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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet