

SAFETY DATA SHEET

According to JIS Z 7253:2019
Issue Date 18-Mar-2026
 Revision Number 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	LabAssay™ Total Protein
Product Code	295-98801

Supplier FUJIFILM Wako Pure Chemical Corporation
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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

Skin sensitization	Category 1
Carcinogenicity	Category 2
Reproductive Toxicity	Category 1B (additional)
Specific target organ toxicity (single exposure)	Category 1
Category 1 thyroid gland	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 skin, thyroid gland, systemic toxicity	
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 3

Pictograms



Signal word

Danger

Hazard statements

- H351 - Suspected of causing cancer
- H360 - May damage fertility or the unborn child
- H362 - May cause harm to breast-fed children
- H317 - May cause an allergic skin reaction
- H400 - Very toxic to aquatic life
- H412 - Harmful to aquatic life with long lasting effects
- H370 - Causes damage to the following organs: thyroid gland
- H372 - Causes damage to the following organs through prolonged or repeated exposure: skin, thyroid gland, systemic toxicity

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

- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- 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
- Avoid release to the environment

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- Collect spillage

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 Kit (Set of mixtures)

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Chromogen Reagent	-	N/A	N/A	N/A	N/A-29-9881
Standard	-	N/A	N/A	N/A	N/A-29-9882

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

Substances Remarks: This Product includes the following componets. Potassium iodide <5.0%, Copper(II) sulfate pentahydrate <0.50%, Potassium Bromate <0.50%

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 contaminant and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recovery, 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

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Store away from sunlight in a cool (2-10 °C) well-ventilated dry place.

Safe packaging material No information available

Incompatible substances No information available

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
Potassium iodide 7681-11-0	N/A	N/A	TWA: 0.01 mg/m ³ I inhalable particulate matter Skin
Copper(II) sulfate pentahydrate 7758-99-8	N/A	N/A	TWA: 1 mg/m ³ Cu dust and mist

Personal protective equipment

Respiratory protection Protective mask

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

Appearance	Kit (Set of mixtures)
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	
No information available	
Hazardous decomposition products	
Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides (SO _x), Halides, 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	Oral LD50	Dermal LD50	Inhalation LC50
Potassium iodide	N/A	> 2000 mg/kg (Rat)	N/A
Copper(II) sulfate pentahydrate	960 mg/kg (Rat)	>2000 mg/kg (Rat)	N/A
Potassium Bromate	400 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-

	information	information	source information
Potassium iodide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	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
Potassium iodide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Potassium Bromate	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
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagenicity source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
Potassium Bromate 7758-01-2	N/A	Group 2B	N/A	N/A

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.

Potassium Bromate	Based on the NITE GHS classification results.
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Aspiration hazard

Chemical Name	Aspiration Hazard source information
Potassium iodide	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.
Potassium Bromate	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**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium iodide	N/A	LC50 : <i>Danio rerio</i> >100 mg/L 96 h	N/A
Copper(II) sulfate pentahydrate	N/A	LC50 : <i>Lepomis macrochirus</i> 0.96 - 1.8 mg/L 96 h LC50 : <i>Oncorhynchus mykiss</i> 0.1478 - 0.165 mg/L 96 h	LC50 : <i>Ceriodaphnia affinis</i> 0.00272 mg/L 48 h

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Potassium iodide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Copper(II) sulfate pentahydrate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Potassium Bromate	Based on the NITE GHS classification results.	Based on the NITE GHS classification 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**

UN number	UN3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Copper(II) sulfate pentahydrate Mixture)
UN classification	9
Subsidiary hazard class	
Packing group	III
Marine pollutant	Yes

IMDG

UN number	UN3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Copper(II) sulfate pentahydrate Mixture)

UN classification 9
Subsidiary hazard class
Packing group III
Marine pollutant (Sea) Yes
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA

UN number UN3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Copper(II) sulfate pentahydrate Mixture)
UN classification 9
Subsidiary hazard class
Packing group III
Environmentally Hazardous Substance Yes

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable
Poisonous and Deleterious Substances Control Law Not applicable
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)
 Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Regulations for the carriage and storage of dangerous goods in ship Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
Civil Aeronautics Law Miscellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)
Pollutant Release and Transfer Register Law (2023.4.1-) Not applicable
Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)
Air Pollution Control Law Hazardous Air Pollutants

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	Scheduled enforcement date
Notifiable Substances (Law Art.57-2)	Iodine and Iodine compounds	<5.0	Existing Law
Notifiable Substances (Law Art.57-2)	Copper and its compounds	<0.50	Existing Law
Notifiable Substances (Law Art.57-2)	Potassium bromate	<0.50	Existing Law

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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
 Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
 etc

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