

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/12/2013 Revision date: 3/31/2023

SDS code: R2-13

Version: 06

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	Fehling solution No.1 R2-13
Company/undertaking identification HAYASHI PURE CHEMICAL	oma oc-j	D.,LTD. chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards	Explosives	classification not possible
	Flammable gases	No classification
	Aerosol	classification not possible
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	classification not possible
	Flammable solids	No classification
	Self-reactive substances and mixtures	classification not possible
	Pyrophoric liquids	classification not possible
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	classification not possible
	Substances and mixtures which in contact with water emit flammable gases	classification not possible
	Oxidizing liquids	classification not possible
	Oxidizing solids	No classification
	Organic peroxides	classification not possible
	Corrosive to metals	classification not possible
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	No classification
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	No classification
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Respiratory sensitization	classification not possible
	Skin sensitization	Category 1
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	classification not possible
	Reproductive toxicity	Category 2
	Specific target organ toxicity (single exposure)	Category 2 (liver, nervous system, kidneys, blood system)

Environmental hazards	Specific target organ toxicity (repeated exposure) Aspiration hazard Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) Hazardous to the ozone layer		Category 2 (respiratory system) classification not possible Category 1 Category 2 classification not possible		
Hazard pictograms (GHS JP)	PG	\wedge			
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	GHS05	GHS07 Gł	IS08 GH	S09	
Signal word (GHS JP) :	Danger			
Hazard statements (C	GHS JP) :	Causes serious e Suspected of dar May cause dama system) (H371) May cause dama repeated exposu Very toxic to aqu	ergic skin reaction eye damage (H318 naging fertility or t ge to organs (live ge to organs (resp re (H373)	a) he unborn child (H361) r, nervous system, kidneys, blood biratory system) through prolonged or	
Precautionary statem	ents (GHS JP)				
Prevention	:	Do not handle un (P202) Do not breathe d Wash hands, fore Do not eat, drink Contaminated wo (P272) Avoid release to Wear protective o (P280)	ust/fume/gas/mist earms and face the or smoke when us ork clothing should the environment. (gloves/protective o	utions have been read and understood. (vapors/spray. (P260) proughly after handling. (P264) sing this product. (P270) not be allowed out of the workplace. P273) dothing/eye protection/face protection.	
Response	:	IF IN EYES: Rins contact lenses, if (P305+P351+P33 IF exposed or co (P308+P311) Immediately call Get medical advi If skin irritation or	e cautiously with present and easy 38) ncerned: Call a PO a POISON CENT ce/attention if you rash occurs: Get nated clothing and	ater. (P302+P352) water for several minutes. Remove to do. Continue rinsing. DISON CENTER or doctor. ER or doctor. (P310) feel unwell. (P314) medical advice/attention. (P333+P313) wash it before reuse. (P362+P364)	
Storage	:	Store locked up.	-		
Disposal	:		nce with local, reg	azardous or special waste collection onal, national and/or international	

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	Tormula	CSCL no	ISHL no	
Copper(II) sulfate	About 4.2%	CuSO4	(1)-300	Existing Chemical Substance	7758-98-7
Water	About 95.8%	H2O	-	-	7732-18-5

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.
First-aid measures after skin contact	:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.
		Get immediate medical advice/attention.
First-aid measures after eye contact	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Get immediate medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth.
		Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	:	Water spray, Foam, Dry powder, Carbon dioxide, Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Explosion hazard	:	May induce explosion of containers by heating.
Hazardous decomposition products in case of fire	:	In case of fire, product may produce irritative or toxic fumes/gases.
Firefighting instructions	:	If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.
		In the case of peripheral fire, quickly remove movable containers to safe places.
		If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.
		Avoid (reject) fire-fighting water to enter environment.
		Even after extinguishing fire, thoroughly cool containers by using plenty of water.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures :	: Before entering, ventilate the area.		
	Do not let unauthorized persons come close to the area.		
	Immediately place the leakage area in isolation, with taking proper distances for all directions.		
	Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.		
Environmental precautions			
Environmental precautions :	Avoid release to the environment.		
	Prevent entry to sewers and public waters.		

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up		Clean up any spills as soon as possible, using an absorbent material to collect it.
		Collect leaking and spilled liquid in sealable containers as far as possible.
		Wash out the spilled area with large amounts of water.
7. Handling and storage		
Technical measures	:	Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.
		Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.

		generation of mist of vapor, and thoroughly ventilate.
Precautions for safe handling	:	Do not eat, drink or smoke when using this product.
		Thoroughly wash your hands and gargle after handling.
		Ensure good ventilation of the work station.
		Do not contact, breathe or swallow.
Prevents handling of incompatible substances or mixtures	:	Avoid prolonged or repeated exposure.
Storage		
Storage conditions	:	Store locked up.
		Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.
Material used in packaging/containers	:	Airtight container.
Technical measures	:	Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Appropriate engineering controls	: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.
Protective equipment	
Respiratory protection	: Protective mask
Hand protection	: Impervious protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

		•
Physical state	:	Liquid
Appearance	:	Liquid
Color	:	blue
Odor	:	Odorless
рН	:	3.8 (25°C)
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.04 g/cm³ (20°C)
Relative gas density	:	No data available
Solubility	:	No data available

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Partition coefficient n- octanol/water (Log Pow)	:	No data available
Explosive limits (vol %)	:	No data available
Viscosity, kinematic	:	No data available
Particle characteristics	:	No data available

10. Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions.
Possibility of hazardous reactions	:	Corrodes many kinds of metals to evolve flammable/explosive gas (hydrogen).
Conditions to avoid	:	Sunlight, heat. Contact with metals.
Incompatible materials	:	Metals
Hazardous decomposition products	:	Sulfur oxides, Copper compounds, Hydrogen

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

As a product	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	vapors:No classification
	Gases:No classification
Skin corrosion/irritation	dust, mist:classification not possible Category 2
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 2
STOT-repeated exposure Aspiration hazard	Category 2 classification not possible
Copper(II) sulfate	
Acute toxicity (oral)	Category 3
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 1 Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	Category 1 Category 2
Aspiration hazard	classification not possible
Water	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	No classification
Skin corrosion/irritation	No classification
Serious eye damage/irritation	No classification

Water		
Respiratory sensitization	No classification	
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	No classification	
Reproductive toxicity	No classification	
STOT-single exposure	No classification	
STOT-repeated exposure	No classification	
Aspiration hazard	No classification	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

As a product		
Hazardous to the aquatic environment, short-term (acute)	Category 1	
Hazardous to the aquatic environment, long-term (chronic)	Category 2	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	
Copper(II) sulfate		
Hazardous to Aquatic Environment - Acute Hazard	Category 1	
Hazardous to Aquatic Environment - Chronic Hazard	Category 1	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	
Water		
Hazardous to Aquatic Environment - Acute Hazard	No classification	
Hazardous to Aquatic Environment - Chronic Hazard	No classification	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	

13. Disposal considerations

Ecology - waste materials	:	With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.
Contaminated container and packaging	:	Empty the packaging completely prior to disposal. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG)	:	3082
Proper Shipping Name (IMDG)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Packing group (IMDG)	:	
Transport hazard class(es) (IMDG)	:	9
Hazard labels (IMDG)	:	9
Class (IMDG)	:	9

Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG) Packing provisions (IMDG)	: LP01, P001 : PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
Stowage category (IMDG) MFAG-No	: A : 171
Air transport(IATA)	
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Packing group (IATA)	: III : 9
Transport hazard class(es) (IATA) Hazard labels (IATA)	. 9
Class (IATA)	: 9
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA) CAO max net quantity (IATA)	: 964 : 450L
Special provision (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L
Marine pollutant	: Applicable
Regulations in Japan	
Regulatory information by sea Regulatory information by air	 Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law.
MFAG-No	: 171
	. Mile an encourage attemption of the second statement of the second statement of the second
Special transport precautions	: When transporting, load containers so that they do not tip over,
Special transport precautions	damage, drop or collapse. Make sure there is no leak in containers.
	damage, drop or collapse. Make sure there is no leak in containers.
15. Regulatory information	damage, drop or collapse. Make sure there is no leak in containers.
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15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable
15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)
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15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods
15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign Trade Control Act	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods
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 15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law Waterworks Law 	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003)
 15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law 	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003) Substances for Water Quality Standard (Act Art.12-2 Para.2,
 15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law Waterworks Law Sewerage Law 	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003) Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4)
 15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law Waterworks Law 	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dungerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003) Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4) Class 1 Designated Chemical Substances (Act Art.2 para.2, Enforcement Order Art.1 Appended Table No.1)
 15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law Waterworks Law Sewerage Law Japanese Pollutant Release and 	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003) Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4) Class 1 Designated Chemical Substances (Act Art.2 para.2, Enforcement Order Art.1 Appended Table No.1) Water-soluble copper salts (except for complex salts) as
 15. Regulatory information National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Water Pollution Prevention Law Fire Service Law Air Pollution Control Law Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law Waterworks Law Sewerage Law Japanese Pollutant Release and 	 damage, drop or collapse. Make sure there is no leak in containers. Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Copper and its compounds (Ordinance number : 379) Not applicable Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3) Not applicable Hazardous Air Pollutants (Central Environment Council Report No. 9) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dungerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003) Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4) Class 1 Designated Chemical Substances (Act Art.2 para.2, Enforcement Order Art.1 Appended Table No.1)

16. Other information

Data sources	:	Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).
Other information	:	The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.