

# Water test reagent for determination hard or soft

### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 2/17/2016 Revision date: 9/8/2020 SDS code: F9-20 Version: 04

### Safety Data Sheet

### 1. Chemical product and company identification

**Product name** Water test reagent for determination hard or soft

SDS code F9-20

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Responsible department : Planning Group, Reagent & Chemical Product Department

Telephone: 06-6910-7305

E-mail: shiyaku\_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

**Emergency number** 06-6910-7305

#### 2. Hazards identification

#### **GHS** classification

Physical hazards Desensitized eplosives classification not possible

> No classification **Explosives** Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification Flammable solids No classification

Self-reactive substances and

mixtures

No classification

Pyrophoric liquids No classification Pyrophoric solids No classification Self-heating substances and No classification

mixtures

Substances and mixtures which in contact with water emit flammable

gases

classification not possible

No classification Oxidizing liquids

Oxidizing solids classification not possible

Organic peroxides No classification

Corrosive to metals classification not possible

Health hazards Acute toxicity (oral) No classification

> Acute toxicity (dermal) No classification Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) No classification Acute toxicity (inhalation:dust/mist) Category 4 Skin corrosion/irritation No classification Serious eye damage/eye irritation Category 1

Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single

exposure)

Category 3 (Respiratory tract irritation.)

Specific target organ toxicity (single

exposure)

Category 3 (Narcosis)

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Specific target organ toxicity

(repeated exposure)

classification not possible

classification not possible

Aspiration hazard

Hazardous to the aquatic environment, short-term (acute) No classification

Hazardous to the aquatic

environment, long-term (chronic)

No classification

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Environmental hazards





GHS07

Signal word (GHS JP) Danger

Hazard statements (GHS JP) Causes serious eye damage (H318)

Harmful if inhaled (H332)

May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336)

Precautionary statements (GHS JP)

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

Use only outdoors or in a well-ventilated area. (P271)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

Immediately call a POISON CENTER or doctor. (P310) Call a POISON CENTER or doctor if you feel unwell. (P312)

Storage Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store locked up. (P405)

Disposal Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

# 3. Composition/information on ingredients

Distinction of substance or mixture

Name	Concentration or Concentration range	Formula	Kanpo number		040 041
			CSCL no	ISHL no	CAS RN
Eriochrome black T	About 1%	C20H12N3NaO7S	(5)-2113	Existing Chemical Substance	1787-61-7
Sodium carbonate	About 89%	Na2CO3	(1)-164	Existing Chemical Substance	497-19-8
Sodium hydrogen carbonate	About 10%	NaHCO3	(1)-164	Existing Chemical Substance	144-55-8

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, 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 eve

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.

Rinse mouth. First-aid measures after ingestion

Get immediate medical advice/attention.

Do not use a heavy water stream.

# 5. Fire fighting measures

Suitable extinguishing media

Firefighting instructions

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Hazardous decomposition products

in case of fire

In case of fire, product may produce irritative or toxic fumes/gases.

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.

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 Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

# 7. Handling and storage

#### Handling

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.

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

Light shielding airtight container.

Comply with applicable regulations. Technical measures

Storage temperature Cool and dark place

# 8. Exposure controls / Personal protection equipment

: Cover up tightly the generation source at the handling place or install local Appropriate engineering controls

> exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Dustproof mask : Protective gloves Hand protection

: Protective glasses (general glasses, glasses with side-shields, goggles) Eye protection

Skin and body protection : Protective clothing, Protective boots, Protective apron

# 9. Physical and chemical properties

Physical state

Appearance Hygroscopic powder Color white ~ gray Odor No data available рΗ No data available No data available Melting point 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 2.53 g/cm3

Relative gas density No data available

Solubility Easily soluble in water. Insoluble in ethanol.

Partition coefficient n-

octanol/water (Log Pow)

No data available

No data available Explosive limits (vol %) 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 It produces carbon dioxide due to acids. Conditions to avoid Sunlight, heat, moisture. Contact with acids.

Incompatible materials Acids

Hazardous decomposition No data available

products

# 11. Toxicological information

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

	JOH THE GHS Classification Results by NITE.	
As a product	I	
Acute toxicity (oral)	No classification	
Acute toxicity (dermal) Acute toxicity (inhalation)	No classification vapors:No classification	
Acute toxicity (iiiilalation)	Gases:No classification	
	dust, mist:Category 4	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 1	
Respiratory sensitization Skin sensitization	classification not possible classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 3 (Respiratory tract irritation.) Category 3 (Narcosis)	
STOT-repeated exposure Aspiration hazard	classification not possible classification not possible	
Eriochrome black T	Ciassification flot possible	
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (derinar)  Acute toxicity (gas)	No data available	
Acute toxicity (gas) Acute toxicity (vapour)	No data available	
Acute toxicity (vapour)  Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
	No data available	
Serious eye damage/irritation  Respiratory sensitization	No data available  No data available	
Skin sensitization	No data available	
	No data available	
Germ cell mutagenicity		
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	
Sodium carbonate		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	Category 4	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	
Sodium hydrogen carbonate		
Acute toxicity (oral)	No classification	
Acute toxicity (oral) Acute toxicity (dermal)	No classification	
Acute toxicity (dermai)  Acute toxicity (gas)	No classification	
Acute toxicity (gas) Acute toxicity (vapour)	No classification	
Acute toxicity (vapour)  Acute toxicity (inhalation:dust/mist)	No classification	
Skin corrosion/irritation	No classification	
OKIII COITOSIOT/IITICALIOTI	NO GIASSINGALION	

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Sodium hydrogen carbonate		
Serious eye damage/irritation	No classification	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	No classification	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	

# 12. Ecological information

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

The information in this section is based on the "GHS Classification Results" by NITE.				
As a product				
Hazardous to the aquatic environment,	No classification			
short-term (acute)				
Hazardous to the aquatic environment,	No classification			
long-term (chronic) Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
Eriochrome black T				
Hazardous to Aquatic Environment -	No data available			
Acute Hazard				
Hazardous to Aquatic Environment -	No data available			
Chronic Hazard				
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Hazardous to the ozone layer	No data available			
Sodium carbonate				
Hazardous to Aquatic Environment - Acute Hazard	No classification			
Hazardous to Aquatic Environment -	No classification			
Chronic Hazard	TVO Glassification			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Hazardous to the ozone layer	No data available			
Sodium hydrogen carbonate				
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) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Packing group (IMDG) : Not applicable
Transport hazard class(es) (IMDG) : Not applicable

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) (IATA) : Not applicable

Marine pollutant : Not applicable

Regulations in Japan

Regulatory information by sea : Not applicable Regulatory information by air : Not applicable

**Special transport precautions** : When transporting, load containers so that they do not tip over,

damage, drop or collapse. Make sure there is no leak in containers.

# 15. Regulatory information

**National law** 

Industrial Safety and Health Law : Not applicable Japanese Poisonous and : Not applicable

Deleterious Substances Control Law

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Waterworks Law : Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

### 16. Other information

Data sources : Handbook of 17120 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).

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.