

# 400mmol/L Disodium hydrogenphosphate solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 1/12/2024 SDS code: PC-11 Version: 01

## Safety Data Sheet

## 1. Chemical product and company identification

Product name : 400mmol/L Disodium hydrogenphosphate solution

SDS code : PC-11

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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

Telephone: 06-6910-7305

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

**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

Health hazards

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 classification not possible

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

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
Acute toxicity (oral) classification not possible

Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) classification not possible classification not possible

Serious eye damage/eye irritation classification not possible classification not possi

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 classification not possible

exposure)

Environmental

Specific target organ toxicity classification not possible

(repeated exposure)

classification not possible Aspiration hazard Hazardous to the aquatic classification not possible

hazards environment, short-term (acute)

Hazardous to the aquatic classification not possible environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

# 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or Concentration range	Formula	Kanpo number		
Name			CSCL no	ISHL no	CAS RN
Disodium hydrogenphosphate	About 5.4%	Na2HPO4	(1)-497	Existing Chemical Substance	7558-79-4
Water	About 94.6%	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

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Do not use a heavy water stream.

Hazardous decomposition products

in case of fire

Firefighting instructions

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 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

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 in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in : Airtight container.

packaging/containers

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: LiquidAppearance: LiquidColor: colorlessOdor: OdorlesspH: 9.0 (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 No data available No data available Vapor pressure Relative density No data available Density 1.05 g/cm³ (20°C) Relative gas density No data available Solubility No data available Partition coefficient n-No data available

octanol/water (Log Pow)

SDS code: PC-11 Version: 01

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 : Decomposes on ignition, producing phosphorus oxides and sodium oxides.

Reacts with strong acids.

Conditions to avoid : Sunlight, heat. Contact with strong acids.

Incompatible materials : Strong acids

Hazardous decomposition : Phosphorus oxides, Sodium oxides

products

# 11. Toxicological information

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

Acute toxicity (oral) classification not possible   Acute toxicity (dermal) classification not possible   Acute toxicity (inhalation) vapors:classification not possible   Gases:classification not possible   dust, mistclassification not possible   dust, mistclassification not possible   dust, mistclassification not possible   Respiratory sensitization   classification not possible   Respiratory sensitization   Respiratory demaple   Respiratory (oral)   Ro data available   Route toxicity (oral)   Ro data available   Route toxicity (dermal)   Ro data available   Route toxicity (inhalation-dust/mist)   Ro data available   Route toxicity (inhalation-dust/mist)   Ro data available   Respiratory sensitization   Ro data available   Respiratory sensitization   Ro data available   Respiratory sensitization   Ro data available   Route toxicity (oral)   Ro data available   Respiratory sensitization   Ro data available   Route toxicity (oral)   Ro data available   Route toxicity (	As a product				
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Water		
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.

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)	classification not possible			
Hazardous to the aquatic environment, long-term (chronic)	classification not possible			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
Disodium hydrogenphosphate				
Hazardous to Aquatic Environment - Acute Hazard	No data available			
Hazardous to Aquatic Environment - Chronic Hazard	No data available			
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			
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) : 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

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Export Trade Control Ordinance appendix 1-16

Not applicable

### 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.