

Disodium hydrogenphosphate dodecahydrate

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 2/18/2010 Revision date: 5/24/2022 SDS code: C4-20 Version: 05

Safety Data Sheet

1. Chemical product and company identification

Product name : Disodium hydrogenphosphate dodecahydrate

SDS code : C4-20

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number : 06-6910-7305

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 No classification

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

Pyrophoric liquids No classification

Pyrophoric solids classification not possible Self-heating substances and classification not possible

classification not possible

classification not possible

classification not possible

No classification

mixtures

Oxidizing liquids

Substances and mixtures which in

contact with water emit flammable

gases

Oxidizing solids

Organic peroxides

Corrosive to metals

Desensitized eplosives

Acute toxicity (oral)

Classification not possible classific

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

Acute toxicity (inhalation:vapors) No classification

Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible Serious eye damage/eye irritation classification not possible 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)

Specific target organ toxicity

(repeated exposure)

Aspiration hazard classification not possible

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Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

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

classification not possible

Hazardous to the ozone layer

classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture Substance

Synonyms Disodium phosphate dodecahydrate

Mana a	Concentration or Concentration range	Formula	Kanpo number		040 511
Name			CSCL no	ISHL no	CAS RN
Disodium hydrogenphosphate dodecahydrate	≧98.0%, ≦100%	Na2HPO4·12H2O	(1)-497	Existing Chemical Substance	10039-32-4

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 eye

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.

Fire hazard

This product is unburnable.

Hazardous decomposition products

Firefighting instructions

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

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

Wear appropriate personal protective devices to prevent inhalation and General measures

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.

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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

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 : Dustproof mask Hand protection : Protective gloves

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

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

9. Physical and chemical properties

Physical state Solid

Appearance Crystals ~ Mass

Color white Odor Odorless

рΗ 9.0 - 9.4 (50g/L, 25°C)

Melting point

Freezing point No data available No data available Boiling point Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available No data available Flammability (solid, gas) Vapor pressure No data available Relative density No data available Density 1.53 g/cm³

Relative gas density No data available

Soluble in water. Insoluble in alcohol. Solubility

Partition coefficient n-No data available

octanol/water (Log Pow)

Explosive limits (vol %) No data available Viscosity, kinematic No data available Particle characteristics No data available

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10. Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal handling conditions. Easy to occur efflorescence in dry

air. Dissolves in crystallization water at 35°C.

Possibility of hazardous reactions When heating strongly, it decomposes to produce phosphorus oxides and

sodium oxides. Reacts with strong acids.

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

Incompatible materials Strong acids

Phosphorus oxides, Sodium oxides Hazardous decomposition

products

11. Toxicological information

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

Disodium hydrogenphosphate dodecahydrate			
Acute toxicity (oral)	classification not possible		
Acute toxicity (dermal)	classification not possible		
Acute toxicity (gas)	classification not possible		
Acute toxicity (vapour)	No classification		
Acute toxicity (inhalation:dust/mist)	classification not possible		
Skin corrosion/irritation	classification not possible		
Serious eye damage/irritation	classification not possible		
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	classification not possible		
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.

Disodium hydrogenphosphate dodecahydrate		
Hazardous to Aquatic Environment - Acute Hazard	classification not possible	
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible	
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.

Empty the packaging completely prior to disposal. Contaminated container and

packaging 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

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Packing group (IMDG)

Transport hazard class(es) (IMDG) Not applicable

Air transport(IATA)

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

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,

Not applicable

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

Japanese Pollutant Release and

Transfer Register Law (PRTR Law)

Not applicable

16. Other information

Data sources Handbook of 17322 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.