

N/2.45 Sodium carbonate solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 12/10/2014 Revision date: 6/11/2024 SDS code: I3-08 Version: 04

Safety Data Sheet

1. Chemical product and company identification

Product name : N/2.45 Sodium carbonate solution

SDS code : 13-08

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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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 Desensitized explosives classification not possible

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 classification not possible

mixtures

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

Health hazards Acute toxicity (oral) No classification

Acute toxicity (dermal) No classification

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

Acute toxicity (inhalation:dust/mist) No classification
Skin corrosion/irritation No classification
Serious eye damage/eye irritation Category 2A

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 No classification

exposure)

Revision date: 6/11/2024 SDS code: I3-08 Version: 04

Specific target organ toxicity

(repeated exposure)

classification not possible

classification not possible

Aspiration hazard

No classification

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic) No classification

Hazardous to the ozone layer

classification not possible

Hazard pictograms (GHS JP)



Signal word (GHS JP) Warning

Hazard statements (GHS JP) Causes serious eye irritation (H319)

Precautionary statements (GHS JP)

Prevention Wash hands, forearms and face thoroughly after handling. (P264)

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

(P280)

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

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

(P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

3. Composition/information on ingredients

Distinction of substance or mixture

Synonyms 0.204mol/L Sodium carbonate solution

Name Concentration or Concentration range		Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CASKI
Sodium carbonate	About 2.1%	Na2CO3	(1)-164	Existing Chemical Substance	497-19-8
Water	About 97.9%	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 Do NOT induce vomiting.

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. Revision date: 6/11/2024 SDS code: I3-08 Version: 04

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 : 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

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

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)

Revision date: 6/11/2024 SDS code: I3-08 Version: 04

Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state : Liquid Appearance : Liquid

Color : colorless transparent

Odor Odorless рΗ 11.4 (25°C) Melting point No data available Freezing point No data available Boiling point No data available No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability No data available Vapor pressure No data available Relative density No data available 1.02 g/cm3 (20°C)

Density : 1.02 g/cm³ (20°C)
Relative gas density : No data available
Solubility : No data available

Partition coefficient noctanol/water (Log Pow)

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 : Reacts with acids to evolve carbon dioxide. Reacts with aluminium. Reacts

with fluorine and hydrogen peroxide.

Conditions to avoid : Sunlight, heat. Contact with strong acids, aluminium, fluorine and hydrogen

peroxide.

Incompatible materials : Strong acids, Aluminium, Fluorine, Hydrogen peroxide

No data available

Hazardous decomposition : Sodium oxides

products

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)	No classification
Acute toxicity (inhalation)	vapors:classification not possible
	Gases:classification not possible
	dust, mist:No classification
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2A
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
Sodium carbonate	

Sodium carbonate	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification

Revision date: 6/11/2024

Sodium carbonate		
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	
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	
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

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As a product	
Hazardous to the aquatic environment,	No classification
short-term (acute)	
Hazardous to the aquatic environment,	No classification
long-term (chronic)	No data assistati
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Sodium carbonate	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment -	No classification
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
Water	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment - Chronic Hazard	No classification

Revision date: 6/11/2024 SDS code: I3-08 Version: 04

Water	
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 Chemical substances that damage the skin, etc. Harmful substances

> that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1,

4 based on July 4, 2023)

[Date of enforcement: April 1, 2025]

Dangerous or Harmful Substances for Labeling of Chemical Name

etc. (Act Art.57 Para.1, Enforcement Order, Art.18)

Dangerous or Harmful Substances for Notification of Chemical Name

etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2)

Sodium carbonate

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Fire Service Law Not applicable

Law Relating to Prevention of Marine Pollution and Maritime

Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement

Order, Art.1-2, Attached Table No.1 Item 3)

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

Revision date: 6/11/2024 SDS code: I3-08 Version: 04

16. Other information

Data sources

 Handbook of 17524 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 Havashi 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.