

10% Sodium carbonate solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 7/17/2014 Revision date: 6/27/2024

SDS code: R8-13

Version: 05

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	10% Sodium carbonate solution R8-13
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.jj	ma oc-j.	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

Desensitized explosives	classification not possible
-	classification not possible
•	No classification
-	classification not possible
	No classification
00	No classification
	classification not possible
•	No classification
Self-reactive substances and mixtures	classification not possible
Pyrophoric liquids	classification not possible
	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	Category 1
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	Category 1
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)	No classification
	mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Oxidizing liquids Oxidizing solids Organic peroxides Corrosive to metals Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation:gas) Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity (single

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		re) aquatic t-term (acute) aquatic I-term (chronic)	classification not possible classification not possible No classification No classification classification not possible
Hazard pictograms (GHS JP)	GHS05			
Signal word (GHS JP))	:	Danger	
Hazard statements (G	iHS JP)	:	May be corrosive Causes severe sk	to metals (H290) kin burns and eye damage (H314)
Precautionary stateme	ents (GHS JP)			
Prevention		:	Do not breathe du Wash hands, fore	nal container. (P234) ust/fume/gas/mist/vapors/spray. (P260) earms and face thoroughly after handling. (P264) loves/protective clothing/eye protection/face protection.
Response		:	(P301+P330+P33 IF ON SKIN (or ha Rinse skin with wa IF INHALED: Rem breathing (P304+I IF IN EYES: Rinse contact lenses, if J (P305+P351+P33 Immediately call a Wash contaminate	air): Take off immediately all contaminated clothing. ater . (P303+P361+P353) nove person to fresh air and keep comfortable for P340) e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing.
Storage		:	Store locked up. ((P405)
Disposal		:	Dispose of conten	resistant container with a resistant inner liner. (P406) hts/container to hazardous or special waste collection hce with local, regional, 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	i ornidia	CSCL no	ISHL no	
Sodium carbonate	About 10%	Na2CO3	(1)-164	Existing Chemical Substance	497-19-8
Water	About 90%	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	:	Remove/Take off immediately all contaminated clothing.
contact		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	:	Water spray, Alcohol-resistant 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

reisonal riecaulions, riolective	Equi	prient and Emergency Frocedures
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 Conta	ainm	ent 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.
	Store in corrosive resistant container with a resistant inner liner.
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	:	colorless transparent
Odor	:	Odorless
рН	:	11.6 (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
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.10 g/cm ³ (20°C)
Relative gas density	:	No data available
Solubility	:	No data available
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

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 acids, aluminium, fluorine and hydrogen peroxide.
Incompatible materials	:	Acids, Aluminium, Fluorine, Hydrogen peroxide
Hazardous decomposition products	:	Sodium oxides

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	Category 1
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity Carcinogenicity	classification not possible 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	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (gas)	classification not possible
Acute toxicity (vapour)	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
	No classification
Carcinogenicity	
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.

No classification

As a product					
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				
Sodium 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	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)	÷	3266 CORROSIVE LIQUID, RASIC, INORCANIC, N.O.S.
Proper Shipping Name (IMDG) Packing group (IMDG)	:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Transport hazard class(es) (IMDG)	÷	8
Hazard labels (IMDG)	÷	8
Class (IMDG)	:	8
Special provision (IMDG)	:	223, 274
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)		P001, LP01
IBC packing instructions (IMDG)		IBC03
Tank instructions (IMDG)		Τ7
Tank special provisions (IMDG)	:	TP1, TP28
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Reacts violently with acids. Causes burns to skin, eyes and mucous
	I	membranes.
MFAG-No	:	154
Air transport(IATA)		
UN-No. (IATA)	:	3266
Proper Shipping Name (IATA)	:	Corrosive liquid, basic, inorganic, n.o.s.
Packing group (IATA)	:	
Transport hazard class(es) (IATA)	:	8
Hazard labels (IATA)	:	8
Class (IATA)	:	8

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA) PCA limited quantity max net	: Y841 : 1L
quantity (IATA)	
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L : 856
CAO packing instructions (IATA) CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 8L
Marine pollutant	: Not applicable
Regulations in Japan	Conform to the provision of the Ohim Outer 1
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	: 154
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, 5 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	: Not applicable
Deleterious Substances Control Law	. Not applicable
Fire Service Law	: Not applicable
Law Relating to Prevention of Marine Pollution and Maritime Disasters	: 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
Ship Safety Act	: Corrosive substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	: Corrosive substances (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
Port Regulation Law	: Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
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 17524 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emorraney Researce Guidebook (EBC, 2020)
Other information	 2020 Emergency Response Guidebook (ERG 2020). 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

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.