

20% Sodium carbonate solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 3/9/2023 Revision date: 6/27/2024 SDS code: FC-18 Version: 02

Safety Data Sheet

1. Chemical product and company identification

20% Sodium carbonate solution **Product name**

SDS code FC-18

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.

Do not use on a human body or for animal medicines, foods, household Restrictions on use

products, cosmetics, etc.

2. Hazards identification

GHS classification

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

mixtures

Substances and mixtures which in contact with water emit flammable

gases

classification not possible Oxidizing liquids

Oxidizing solids No classification

Organic peroxides classification not possible

Corrosive to metals Category 1

classification not possible Desensitized explosives

Health hazards Acute toxicity (oral) No classification

Acute toxicity (dermal) No classification No classification Acute toxicity (inhalation:gas)

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)

Category 3 (Narcosis)

classification not possible

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Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

exposure)

Specific target organ toxicity classification not possible

(repeated exposure)

Aspiration hazard classification not possible

Environmental Hazardous to the aquatic hazards

environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS05

GHS07

Signal word (GHS JP) Danger

Hazard statements (GHS JP) May be corrosive to metals (H290)

Causes severe skin burns and eye damage (H314)

No classification

No classification

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

Precautionary statements (GHS JP)

Keep only in original container. (P234) Prevention

Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

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

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

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

(P280)

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

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)

Wash contaminated clothing before reuse. (P363) Absorb spillage to prevent material-damage. (P390)

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

(P403+P233)

Store locked up. (P405)

Store in corrosive resistant container with a resistant inner liner. (P406)

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		CAS RN
			CSCL no	ISHL no	OAO IIII
Sodium carbonate	About 20%	Na2CO3	(1)-164	Existing Chemical Substance	497-19-8
Water	About 80%	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.

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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

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

Firefighting instructions

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.

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

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.

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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
Odor : Odorless
pH : 11.8 (25°C)
Melting point : No data ava

Melting point No data available No data available Freezing point **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 Density 1.21 g/cm3 (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. Since it is a saturated solution,

precipitation may occur.

Possibility of hazardous reactions : Reacts with acids to produce carbon dioxide. Reacts with aluminium. Reacts

with fluorine and hydrogen peroxide.

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

peroxide.

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

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	on the "GHS Classification Results" by NITE.		
Acute toxicity (oral)	No classification		
Acute toxicity (dermal)	No classification		
Acute toxicity (inhalation)	vapors:classification not possible		
,	Gases:No classification		
	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	classification not possible classification not possible		
Carcinogenicity Reproductive toxicity	classification not possible classification not possible		
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)		
STOT-single 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) Acute toxicity (vapour)	classification not possible		
Acute toxicity (vapour) 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			
	No classification		
Acute toxicity (dormal)			
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		
Aspiration nazaru	INO GIASSIIIOALIOTI		

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12. Ecological information

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			
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

With the detail information of the waste, subcontract its disposal to a Ecology - waste materials

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) 1760

Proper Shipping Name (IMDG) CORROSIVE LIQUID, N.O.S.

Packing group (IMDG) Ш 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) T7 Tank special provisions (IMDG) TP1, TP28

Stowage category (IMDG)

Properties and observations (IMDG) Causes burns to skin, eyes and mucous membranes.

MFAG-No 154

Air transport(IATA)

UN-No. (IATA) 1760

Proper Shipping Name (IATA) Corrosive liquid, n.o.s.

Packing group (IATA) Ш Revision date: 6/27/2024 SDS code: FC-18 Version: 02

Transport hazard class(es) (IATA) 8 Hazard labels (IATA) 8

Class (IATA) 8 PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y841 PCA limited quantity max net 1L

quantity (IATA)

PCA packing instructions (IATA) 852 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 856 CAO max net quantity (IATA) 60L Special provision (IATA) A3, A803 ERG code (IATA) 8L

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

MFAG-No

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

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 Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Corrosive substances (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Corrosive substances (Hazardous materials notice Appended Table 1 Civil Aeronautics Law

Article 194 of the Enforcement Regulations)

Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule, Port Regulation Law

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 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,

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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.