

Artificial saliva (for Rubber products)

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/19/2021 SDS code: OB-10 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name : Artificial saliva (for Rubber products)

SDS code : OB-10

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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

Responsible department : Planning Group, Reagent & Chemical Product Department

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

Emergency number : 06-6910-7305

2. Hazards identification

GHS classification

Health hazards

Physical hazards Desensitized eplosives 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 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 classification not possible

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
Acute toxicity (oral) classification not possible
Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas)

Acute toxicity (inhalation:vapors)

Acute toxicity (inhalation:dust/mist)

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory sensitization

Skin sensitization

Classification not possible classific

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)

classification not possible

classification not possible

Aspiration hazard classification not possible

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

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

Hazardous to the ozone layer

classification not possible

classification not possible

classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or		Kanpo	number	
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN
Sodium hydrogen carbonate	About 0.4%	NaHCO3	(1)-164	Existing Chemical Substance	144-55-8
Sodium chloride	About 0.05%	NaCl	(1)-236	7-(3)-1053	7647-14-5
Potassium carbonate	About 0.02%	K2CO3	(1)-153	Existing Chemical Substance	584-08-7
Sodium nitrate	About 0.0005%	NaNO3	(1)-484	Existing Chemical Substance	7631-99-4
Sodium nitrite	About 0.002%	NaNO2	(1)-483	Existing Chemical Substance	7632-00-0
Water	About 99.5275%	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 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

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

Hazardous decomposition products

in case of fire

Firefighting instructions

Do not use a heavy water stream.

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

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, Protective long boots

9. Physical and chemical properties

Physical state : Liquid Appearance : Liquid

Color : colorless transparent

Odor : Odorless pH : $8.7 (25^{\circ}C)$

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

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Flammability (solid, gas)

I No data available

Vapor pressure

Relative density

Density

Classify

Relative gas density

Solubility

Partition coefficient n
No data available

No data available

No data available

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 : No data available
Conditions to avoid : Sunlight, Heat
Incompatible materials : No data available
Hazardous decomposition : No data available

products

11. Toxicological information

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

As a product	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	vapors:classification not possible
	Gases:classification not possible
	dust, mist:classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	classification not possible
Respiratory sensitization Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible 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
Sodium hydrogen carbonate	
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	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 chloride	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible

Sodium chloride	
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
Potassium carbonate	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 2
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	classification not possible
• .	·
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
Sodium nitrate	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	Category 2
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Sodium nitrite	
Acute toxicity (oral)	Category 3
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
	classification not possible
Acute toxicity (vapour)	
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	classification not possible
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Acute toxicity (inhalation:dust/mist)	classification not possible

Sodium nitrite	
Skin sensitization	classification not possible
Germ cell mutagenicity	Category 2
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 1
STOT-repeated exposure	Category 2
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.

As a product	
Hazardous to the aquatic environment,	classification not possible
short-term (acute)	
Hazardous to the aquatic environment,	classification not possible
long-term (chronic)	N. J. W. H.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Sodium hydrogen carbonate	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment -	No classification
Chronic Hazard	TNO Classification
	No data available
Persistence and degradability	
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible
Sodium chloride	
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

Potassium carbonate	
	N. 1. 75 C
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
Sodium nitrate	
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
Sodium nitrite	
Ovarani intrito	
Hazardous to Aquatic Environment - Acute Hazard	Category 1
Hazardous to Aquatic Environment -	Category 1 Category 1
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment -	
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential	Category 1
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability	Category 1 No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential	Category 1 No data available No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil	Category 1 No data available No data available No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer	Category 1 No data available No data available No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer Water Hazardous to Aquatic Environment -	Category 1 No data available No data available No data available classification not possible
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer Water Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment -	Category 1 No data available No data available No data available classification not possible No classification
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer Water Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard	Category 1 No data available No data available No data available classification not possible No classification No classification
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer Water Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability	Category 1 No data available No data available No data available classification not possible No classification No classification No data available

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 : Empty the packaging completely prior to disposal.

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 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

Water Pollution Prevention Law : Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)

Fire Service Law : Not applicable

Law Relating to Prevention of Marine Pollution and Maritime Disasters

on of : Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement itime 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

16. Other information

Data sources : Handbook of 17221 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).

Other information : The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

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