

## Artificial acid rain solution

## Hayashi Pure Chemical Ind.,Ltd.

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# Safety Data Sheet

# 1. Chemical product and company identification

Artificial acid rain solution **Product name** 

SDS code GA-20

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

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 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

classification not possible

mixtures

Substances and mixtures which in 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 Desensitized explosives classification not possible

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

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

Specific target organ toxicity (single

exposure)

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Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard classification not possible Hazardous to the aquatic classification not possible

Environmental hazards

environment, short-term (acute)

Hazardous to the aquatic Category 3

environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard statements (GHS JP) Harmful to aquatic life with long lasting effects (H412)

Precautionary statements (GHS JP)

Prevention Avoid release to the environment. (P273)

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 Mixture

Name	Concentration or	Formula	Kanpo number		CAS RN
Name	Concentration range	Formula	CSCL no	ISHL no	CAS KN
Sodium chloride	About 4.6%	NaCl	(1)-236	7-(3)-1053	7647-14-5
Nitric acid	About 0.09%	HNO3	(1)-394	Existing Chemical Substance	7697-37-2
Sulfuric acid	About 0.29%	H2SO4	(1)-430	Existing Chemical Substance	7664-93-9
Sodium hydroxide	About 0.30%	NaOH	(1)-410	Existing Chemical Substance	1310-73-2
Water	About 94.72%	H2O	-	-	7732-18-5

The above concentration or concentration range are not product specification.

#### 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

Do not use a heavy water stream.

Hazardous decomposition products

In case of fire, product may produce irritative or toxic fumes/gases.

in case of fire

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

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

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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

Exposure limit values	
Nitric acid	
Exposure limits (JSOH)	2ppm(5.2mg/m3)
Sulfuric acid	
Exposure limits (JSOH)	[Ceiling]1mg/m3
Sodium hydroxide	
Exposure limits (JSOH)	[Ceiling]2mg/m3

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 рΗ 3.5 (35℃) 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

Relative density : 1.04 (20°C)

Density : No data available
Relative gas density : No data available
Solubility : No data available
Partition coefficient n- : No data available

octanol/water (Log Pow)

Vapor pressure

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 : Chlorine compounds, Nitrogen oxides, Sulfur oxides

No data available

products

## 11. Toxicological information

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

As a way dead		
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	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 chloride		
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	

Sodium chloride	
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
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Reproductive toxicity	classification not possible
STOT-single exposure	classification not possible
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
Nitric acid	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	Category 1
Acute toxicity (inhalation:dust/mist)	classification not possible
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
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Sulfuric acid	
II WILLY WALM	
	Category 5
Acute toxicity (oral)	Category 5 classification not possible
Acute toxicity (oral) Acute toxicity (dermal)	Category 5 classification not possible No classification
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Sodium hydroxide		
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1	
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.

As a product	
Hazardous to the aquatic environment,	classification not possible
short-term (acute)	
Hazardous to the aquatic environment,	Category 3
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 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
Nitric acid	
Hazardous to Aquatic Environment - Acute Hazard	Category 3
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
Sulfuric acid	
Hazardous to Aquatic Environment - Acute Hazard	Category 3
Hazardous to Aquatic Environment - Chronic Hazard	Category 1
Persistence and degradability	No data available

Sulfuric acid	
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible
Sodium hydroxide	
Hazardous to Aquatic Environment - Acute Hazard	Category 3
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
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) : 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 : Substances on dental health checkup (Act, Art.66, Para.3,

Enforcement Order, Art.22 Item 3)

Japanese Poisonous and

**Deleterious Substances Control Law** 

: Not applicable

Water Pollution Prevention Law

Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)
Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

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Fire Service Law

Air Pollution Control Law

: Not applicable

ntrol Law : Specified substances (Article 17, Paragraph 1 of the Law, Article 10

of the Enforcement Ordinance)

Foreign Exchange and Foreign

Trade Control Act Waterworks Law : Export Trade Control Ordinance appendix 1-16

: 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)

Labor Standards Act

Not applicable

: Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification

No.36 of 1978)

## 16. Other information

Data sources

: Handbook of 17423 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.