

Acetic acid-Ammonium acetate buffer solution pH 5.0

Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Product name : Acetic acid-Ammonium acetate buffer solution pH 5.0

SDS code : D2-18

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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

Telephone: 06-6910-7305

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

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

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

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

riammable

classification not possible

classification not possible

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 Category 2
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 Category 2 (blood, respiratory system)

exposure)

Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard

Hazardous to the aquatic

classification not possible classification not possible

Environmental hazards

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

classification not possible

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

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS05

GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Causes skin irritation (H315)

Causes serious eye damage (H318)

May cause damage to organs (blood, respiratory system) (H371)

Precautionary statements (GHS JP)

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

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

Do not eat, drink or smoke when using this product. (P270)

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

(P280)

Response : IF ON SKIN: Wash with plenty of water. (P302+P352)

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

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

(P305+P351+P338)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Immediately call a POISON CENTER or doctor. (P310)

If skin irritation occurs: Get medical advice/attention. (P332+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

Storage : Store locked up. (P405)

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 Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CASIN
Acetic acid	About 3.1%	СНЗСООН	(2)-688	Existing Chemical Substance	64-19-7
Ammonium acetate	About 7.6%	CH3COONH4	(1)-391,(2)- 688	Existing Chemical Substance	631-61-8
Water	About 89.3%	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

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

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

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish Firefighting instructions

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

Exposure limit values		
Acetic acid		
Exposure limits (JSOH)	10ppm(25mg/m3)	
Exposure limits (ACGIH)	TWA 10 ppm,STEL 15 ppm	

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 : Gas 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 : No data available

pH : 5.0 (25°C)

No data available Melting point Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available No data available Decomposition temperature Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density 1.01 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

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 oxidizing agents and strong bases.

Conditions to avoid : Sunlight, heat. Contact with oxidizing agents and strong bases.

Incompatible materials : Oxidizing agents, Strong bases Hazardous decomposition : Nitrogen oxides, Ammonia

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	Category 2	

As a product	
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 STOT-repeated exposure	Category 2 classification not possible
Aspiration hazard	classification not possible
Acetic acid	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	Category 4
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
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	classification not possible
Aspiration hazard	classification not possible
Ammonium acetate	
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
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
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

Water	
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.

The information in this section is based on the "GHS Classification Results" by NTE. As a product			
Hazardous to the aquatic environment,	classification not possible		
short-term (acute)	·		
Hazardous to the aquatic environment, long-term (chronic)	classification not possible		
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
Mobility in soil	No data available		
Ozone	classification not possible		
Acetic 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		
Ammonium acetate			
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		
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		
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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 : Harmful Substances Whose Names Are to be Indicated on the Label

(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9)
Acetic acid (Ordinance number: 176)

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)

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act

: Export Trade Control Ordinance appendix 1-16

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

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.