

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/19/2020 Revision date: 8/18/2023 SDS code: SA-13

SA-13 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name	:	Acetic acid-Sodium acetate buffer solution
SDS code	:	SA-13
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirand Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@h URL : https://www.hpc-j.co.	oma pc-j	ichi, 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

A	lammable gases erosol Dxidizing gases Gases under pressure	No classification classification not possible No classification No classification
	Oxidizing gases Gases under pressure	No classification
0	ases under pressure	
	•	No election
G		NO Classification
FI	lammable liquids	classification not possible
FI	lammable solids	No classification
-	elf-reactive substances and nixtures	classification not possible
P	yrophoric liquids	classification not possible
P	yrophoric solids	No classification
	elf-heating substances and nixtures	classification not possible
cc	ubstances and mixtures which in ontact with water emit flammable ases	classification not possible
0	Dxidizing liquids	classification not possible
0	Dxidizing solids	No classification
0	organic peroxides	classification not possible
C	orrosive to metals	classification not possible
D	esensitized explosives	classification not possible
Health hazards Ad	cute toxicity (oral)	classification not possible
A	cute toxicity (dermal)	classification not possible
A	cute toxicity (inhalation:gas)	classification not possible
Ad	cute toxicity (inhalation:vapors)	classification not possible
A	cute toxicity (inhalation:dust/mist)	classification not possible
SI	kin corrosion/irritation	Category 2
Se	erious eye damage/eye irritation	Category 2
R	espiratory sensitization	classification not possible
SI	kin sensitization	classification not possible
G	erm cell mutagenicity	classification not possible
Ca	arcinogenicity	classification not possible
R	eproductive toxicity	classification not possible
	pecific target organ toxicity (single xposure)	Category 2 (blood, respiratory system)

	Specific target	orc	an toxicity	classification not possible
	(repeated expo			
	Aspiration haza	ard		classification not possible
Environmental hazards	Hazardous to the environment, sl			classification not possible
	Hazardous to the environment, lo			classification not possible
	Hazardous to the	he	ozone layer	classification not possible
Hazard pictograms (GHS JP)	!> <			
	GHS07	G	HS08	
Signal word (GHS JP))	:	Warning	
Hazard statements (G	6HS JP)	:		tion (H315) ye irritation (H319) ge to organs (blood, respiratory system) (H371)
Precautionary stateme	ents (GHS JP)			
Prevention		:	Wash hands, fore Do not eat, drink of	ust/fume/gas/mist/vapors/spray. (P260) arms and face thoroughly after handling. (P264) or smoke when using this product. (P270) loves/protective clothing/eye protection/face protection.
Response		:	IF IN EYES: Rinse contact lenses, if (P305+P351+P33 IF exposed or cor (P308+P311) If skin irritation oc If eye irritation per	h with plenty of water. (P302+P352) e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing. (8) neerned: Call a POISON CENTER or doctor. curs: Get medical advice/attention. (P332+P313) rsists: Get medical advice/attention. (P337+P313) nated clothing and wash it before reuse. (P362+P364)
Storage		:	Store locked up. (
Disposal		:	Dispose of conter	nts/container to hazardous or special waste collection ce 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	Tornidia	CSCL no	ISHL no	
Sodium acetate	About 14.0%	CH3COONa	(2)-692	Existing Chemical Substance	127-09-3
Acetic acid	About 2.9%	СНЗСООН	(2)-688	Existing Chemical Substance	64-19-7
Water	About 83.1%	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	:	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.
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.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

6. Accidental release measures

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 : Avoid release to the environment. Prevent entry to severs and public waters. Methods and Equipment for Containment and 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 : 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 : 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. Ensure good and keep away from fire and hea	Personal Precautions, Protective I	Equ	ipment and Emergency Procedures
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packaging/containers Technical measures : Comply with applicable regulations.			
		:	Airtight container.
Storage temperature : Cool and dark place	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	: Acetic acid odor
рН	: 5.0 (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 (solid, gas)	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Density	: 1.05 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.
Possibility of hazardous reactions	:	May react with strong oxidizing agents.
Conditions to avoid	:	Sunlight, heat. Contact with strong oxidizing agents.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No data available

11. Toxicological information

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

classification not possible
classification not possible
vapors:classification not possible
Gases:classification not possible
dust, mist:classification not possible
Category 2

As a weaking	
As a product	Category 2
Serious eye damage/irritation 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 2
STOT-repeated exposure Aspiration hazard	classification not possible classification not possible
Sodium acetate	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
	No data available
Acute toxicity (gas) Acute toxicity (vapour)	No data available
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization Skin sensitization	No data available
Germ cell mutagenicity	No data available
	No data available
Carcinogenicity	
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
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
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
U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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.

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) Persistence and degradability	Ne dete eveileble
Bioaccumulative potential	No data available No data available
Mobility in soil	No data available
Ozone	classification not possible
Sodium acetate	
	No data available
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
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
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
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) Packing group (IATA) Not applicable : 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) Corrosive Liquids (Ordinance on Industrial Safety and Health Law Art. 326)
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	:	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 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.