

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. |