

pH6.86 Standard buffer solution, JUNSEI CHEMICAL CO., LTD.,60177jis\_J\_E2-3,20/Dec/2024

Date of issue for the 1st edition : 06/Jun/2018 Date of revision : 20/Dec/2024

# Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking
Product identifier:
Product name: pH6.86 Standard buffer solution
Reference number(SDS):60177jis_J_E2−3
Product type:
Reagent
Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Calibration of pH meters
Uses advised against: Do not use for other purposes.
Details of the supplier of the safety data sheet
Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.
Address: 1–6, Ohmano-cho, Koshigaya-shi, Saitama 343–0844, Japan
Division: Quality Assurance Department
Telephone number: +81-48-986-6161
FAX: +81-48-989-2787
e-mail address: shiyaku-t@junsei.co.jp
e-mail address: sniyaku-t@junsel.co.jp
Section 2. Hazards identification
GHS classification and label elements of the product
Classification of the substance or mixture
No GHS label element
No Signal word
Section 3. Composition/information on ingredients
Mixture/Substance selection:
Mixture
Common name, synonyms: Buffer solution standard pH6.86
Ingredient name:Potassium Phosphate Monobasic
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Content (%):ca. 0.34
Content (%):ca. 0.34 Chemical formula:H2KO4P
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09
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Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4 Ingredient name:Sodium hydrogen phosphate
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4 Ingredient name:Sodium hydrogen phosphate Content (%):ca. 0.36
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4 Ingredient name:Sodium hydrogen phosphate Content (%):ca. 0.36 Chemical formula:HNa2O4P
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4 Ingredient name:Sodium hydrogen phosphate Content (%):ca. 0.36 Chemical formula:HNa2O4P ENCS:1-497
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4 Ingredient name:Sodium hydrogen phosphate Content (%):ca. 0.36 Chemical formula:HNa2O4P ENCS:1-497 CAS No.:7558-79-4
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Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4 Ingredient name:Sodium hydrogen phosphate Content (%):ca. 0.36 Chemical formula:HNa2O4P ENCS:1-497 CAS No.:7558-79-4 MW:141.96 EC No.:231-448-7 Ingredient name:Water
Content (%):ca. 0.34 Chemical formula:H2KO4P ENCS:1-452 CAS No.:7778-77-0 MW:136.09 EC No.:231-913-4 Ingredient name:Sodium hydrogen phosphate Content (%):ca. 0.36 Chemical formula:HNa2O4P ENCS:1-497 CAS No.:7558-79-4 MW:141.96 EC No.:231-448-7



pH6.86 Standard buffer solution, JUNSEI CHEMICAL CO., LTD.,60177jis\_J\_E2-3,20/Dec/2024 Chemical formula:H2O ENCS: Existing Chemical Substances under CSCL CAS No.:7732-18-5 MW:18.02 EC No.:231-791-2 Preservative(Thymol): 0.02% Note : The figures shown above are not the specifications of the product.

### Section 4. First-aid measures

Descriptions of first-aid measures

## IF INHALED

Remove person to fresh air and keep comfortable for breathing.	
Call a POISON CENTER/doctor/physician if you feel unwell.	
IF ON SKIN (or hair)	
Take off immediately all contaminated clothing. Rinse skin with wate	r or shower.
If skin irritation or rash occurs: Get medical advice/attention.	
IF IN EYES	
Rinse cautiously with water for several minutes. Remove contact le	nses, if present and easy
to do. Continue rinsing.	
If eye irritation persists: Get medical advice/attention.	
IF SWALLOWED	
Rinse mouth.	
Call a POISON CENTER/doctor/physician if you feel unwell.	
Most important symptoms and effects, both acute and delayed	
Specific information on symptom and effect are unknown.	
Indication of any immediate medical attention and special treatment needed	ł
Information on indication of any immediate medical attention and sp	ecial treatment needed
is not available.	
Section 5. Fire-fighting measures	
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Extinguishing media	s.
Extinguishing media Suitable extinguishing media	s.
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Wear protective gloves/protective clothing/eye protection/face protection.

- Firefighters should wear self-contained breathing apparatus with a full facepiece operated
- in the positive pressure mode.

#### Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures Ventilate area until material pick up is complete.



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Wear proper protective equipment.

Environmental precautions

Avoid release to headsprings, rivers, lakes, ocean and groundwater.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.

Section 7. Handling and storage Precautions for safe handling Preventive measures (Exposure Control for handling personnel) Avoid breathing dust/fume/gas/mist/vapors/spray. (Protective measures against fire and explosion) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (Exhaust/ventilator) Exhaust/ventilator should be available. (Safety treatments) Avoid contact with skin. Avoid contact with eyes. Safety Measures Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. When using do not eat, drink or smoke. Any incompatibilities data is not available. Storage Conditions for safe storage Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store in accordance with local/national regulation. Container and packaging materials for safe handling data is not available. Specific end use(s) See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations. Section 8. Exposure controls/personal protection Control parameters Control value and concentration standard value are not available in ISHA. Adopted value Adopted value in JSOH is not available. Adopted value in ACGIH is not available. Exposure controls Appropriate engineering controls Do not use in areas without adequate ventilation. Eve wash station should be available. Washing facilities should be available. Individual protection measures

Respiratory protection

Select and wear respiratory protection in accordance with approved standards (e.g. JIS T8150).

Hand protection

Wear protective gloves.

Inspect before use and replace worn or damaged gloves.



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Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Chemical-resistant, impervious gloves complying with an approved standard (e.g. JIS T8116) should be used.

#### Eye protection

Wear eye/face protection in accordance with approved standards (e.g. JIS T8147).

Skin and body protection

Wear impervious clothing and boots in case of repeated or prolonged treatment.

Personal protective equipment for the body and skin should be selected based on the task being performed and the risks involved.

#### Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids): Non-flammable

Lower and upper explosion limit/flammability limit data is not available.

Flash point: Non-flammable

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

Self-Accelerating Decomposition Temperature/SADT data is not available.

pH: 6.86 (25°C)

Dynamic viscosity data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Miscible

Solubility in solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Relative density of the Vapor/air – mixture at  $20^{\circ}$ C (Air = 1) data is not available.

Particle characteristics data is not available.

Other information

Critical temperature data is not available.

Evaporation rate data is not available.

VOC data is not available.

Section 10. Stability and Reactivity Reactivity Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

Conditions to avoid

Heating.



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Incompatible materials

Incompatible materials data is not available.

Hazardous decomposition products

Phosphorus oxides, Metal oxides

Section 11. Toxicological Information The product has not been subjected to toxicological testing. Refer to the available data on the constituents. Information on toxicological effects Acute toxicity Acute toxicity (Oral) [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] (Sodium hydrogen phosphate) rat LD50= 3200mg/kg (source: HSDB) (Potassium dihydrogen phosphate) rat LD50= 17 g/kg (source: HSDB) Acute toxicity (Dermal) [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Acute toxicity (Inhalation) [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Irritant properties Skin corrosion/irritation [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Serious eye damage/irritation [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Sensitization Respiratory sensitization [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Skin sensitization [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Germ cell mutagenicity [Product] Classification not possible (Insufficient data available or no data available).



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[Data for components of the product]
No data available.
Carcinogenicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Reproductive toxicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Specific target organ toxicity (STOT)
STOT-single exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
STOT-repeated exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
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No data available. Aspiration hazard
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Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

[Data for components of the product]

(Sodium hydrogen phosphate)

log Pow: -5.8 (source: ICSC, 2006)

Mobility in soil

Mobility in soil data is not available.

## Other adverse effects

Ozone depleting chemical data is not available.



Section 13. Disposal considerations	
Description of waste residues and information on their safe handling and methods of disposal,	
including the disposal of any contaminated packaging	
Waste treatment methods	
Dispose of contents/container in accordance with local/national regulation.	
Section 14. Transport Information	
UN No., UN CLASS	
UN Number or ID Number : Not regulated	
UN Proper Shipping Name : Not regulated	
Class or division (Transport hazard class) : Not regulated	
Packing group : Not regulated	
IMDG Code (International Maritime Dangerous Goods Regulations)	
UN Number or ID Number : Not regulated	
UN Proper Shipping Name : Not regulated	
Class or division (Transport hazard class) : Not regulated	
Packing group : Not regulated	
IATA (Dangerous Goods Regulations)	
UN Number or ID Number : Not regulated	
UN Proper Shipping Name : Not regulated	
Class or division (Transport hazard class) : Not regulated	
Packing group : Not regulated	
Environmental hazards	
Marine pollutants (yes/no) : no	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Non Noxious Liquid Substances ; Cat. OS	
Water	
Section 15. Regulatory Information	
Safety, health and environmental regulations/legislation specific for the substance or mixture	
U.S. Toxic Substances Control Act (TSCA) Inventory	
Chemicals listed in TSCA Inventory	
7558-79-4; 7732-18-5; 7778-77-0	
All components are listed or exempted.	
Other regulatory information	
We are not able to check up the regulatory information with regard to the substances in	
your country or region, therefore, we request this matter would be filled by your	
responsibility.	
Regulatory information with regard to this substance in your country or in your region	
should be examined by your own responsibility.	
Ensure this material in compliance with federal requirements and ensure conformity to local	

- regulations. Regulatory information in this section are limited to intentional ingredient(s), but does not contain information on non-intentional ingredients or impurities which are not informed
- not contain information on non-intentional ingredients or impurities which are not informe by supplier(s).

Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.



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Section 16. Other information References and sources for data Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit.. 2021 UN IMDG Code, 2022 Edition (Incorporating Amendment 41–22) IATA Dangerous Goods Regulations (65th Edition) 2024 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2024 TLVs and BEIs. (ACGIH) JIS Z 7252 : 2019 JIS Z 7253 : 2019 2023 Recommendation on TLVs (JSOH) Notification No. 0111-1 (January 11, 2022), Chemical Hazards Control Division, Industrial Safety and Health Department, Labour Standards Bureau, MHLW in Japan Supplier's data/information Chemicals safety data management system "GHS Assistant" Version 4.31 (https://www.asahi-ghs.com/) NITE Chemical Risk Information Platform "NITE-CHRIP" (https://www.chem-info.nite.go.jp/chem/chrip/chrip\_search/systemTop) GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.1) (May. 2024, METI) Abbreviations and acronyms SDS (Safety Data Sheet) LD50 (Lethal Dose, 50%) LC50 (Lethal Concentration, 50%) IARC (International Agency for Research on Cancer) ACGIH (American Conference of Governmental Industrial Hygienists) EPA (US Environmental Protection Agency) NTP (US National Toxicology Program) METI (Ministry of Economy, Trade and Industry in Japan) MHLW (Ministry of Health, Labour and Welfare in Japan) MOE (Ministry of the Environment in Japan) JSOH (Japan Society for Occupational Health) ISHA (Industrial Safety and Health Act in Japan) CSCL (Chemical Substances Control Law in Japan) EU (European Union) EC50 (Effective Concentration, 50%) NOEC (No Observed Effect Concentration) BOD (Biochemical Oxygen Demand) COD (Chemical Oxygen Demand) BCF (Bioconcentration Factor) anh (anhydride) General Disclaimer This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Data published in Japan (National Institute of Technology and Evaluation (NITE) Chemical Risk Information Platform (NITE-CHRIP), up to FY2023).