

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name:	525-686, 500-686, 560-686 (pH 6.86 buffer solution)
Product code:	3999960019, 3999960030, 3999960140
Recommended use:	For laboratory and Industrial use
Manufacturer / Supplier:	Horiba Instruments (Singapore) Pte Ltd 83 Science Park Drive, #02-02A, The Curie Singapore-118258 Contact No: +65 69089600

Section 2. Hazard identification

Classification of the Substance or Mixture:

Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: Hazard statement:	No Signal word No Known significant effects or critical hazards
Precautionary statements: General:	Do not handle until all safety precautions have been read and understood
Other hazards which do not result in classification:	None known

Section 3. Composition/ information on ingredients

Substance or Mixture:

Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Potassium Dihydrogen Phosphate	7778-77-0	<1%
Disodium Hydrogen Phosphate	7558-79-4	<1%
Water	7732-18-5	>98%

This product contains <0.01% other ingredient, not required to be listed as it is not hazardous to health and environment.

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

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Section 4. First Aid Measures

	ary first aid measures
Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower
Inhalation:	eyelids. Remove any contact lenses. Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get
	medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and
	shoes. Get medical attention if symptoms occur.
Ingestion:	Clean mouth with water. Remove victim to fresh air and keep at rest in a position
	comfortable for breathing. If material has been swallowed and the person is conscious,
	give small quantities of water to drink. Do not induce vomiting unless directed to do so
	by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed <u>Potential acute health effects:</u> No known significant effects or critical hazards Over-exposure signs/symptoms: No specific data available

 Indication of immediate medical attention and special treatment needed, if necessary

 Notes to physician:
 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media	
Suitable extinguishing media: Unsuitable extinguishing	Use an extinguishing agent suitable for the surrounding fire.
media:	None Known.
Specific hazards arising	
From the chemical:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal	
decomposition products:	No Specific data
Special protective actions	
for Fire-fighters:	Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training
Special protective	
equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

For non-emergency personnel:	equipment and emergency procedures No action shall be taken involving any personal risk or without suitable surrounding areas. Keep unnecessary and unprotected personnel fro touch or walk through spilled material	
For emergency responders:	If specialized clothing is required to deal with the spillage, take note o	of any information in
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section 8 on suitable and unsuitable materials. See also the information in "For non-
emergency personnel"Environmental precautions:Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and
sewers. Inform the relevant authorities if the product has caused environmental pollution
(sewers, water ways, soil and airMethods and material for containment and cleaning up:Prevent further leakage or spillage if safe to do so.Methods of cleaning up:Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling Protective measures:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage, including any incompatibilities:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters		
Occupational exposure limits:	None	
	 Good general ventilation should be sufficient to control worker exposit contaminants. Emissions from ventilation or work process equipment should be chere ensure they comply with the requirements of environmental protection In some cases, fume scrubbers, filters or engineering modifications to equipment will be necessary to reduce emissions to acceptable levels 	cked to n legislation. o the process
Individual protection measures Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical preating, smoking and using the lavatory and at the end of the working prechniques should be used to remove potentially contaminated clothing contaminated clothing before reusing. Ensure that eyewash stations are close to the workstation location.	period. Appropriate ng. Wash
	Safety eyewear complying with an approved standard should be used assessment indicates this is necessary to avoid exposure to liquid spla gases or dusts. If contact is possible, the following protection should be the assessment indicates a higher degree of protection: safety glasses shields.	ashes, mists, e worn, unless
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Skin protection Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	6.86
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive	
(Flammable) limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient	
n- octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients
Chemical stability:	The product is stable
Possibility of hazardous reactions:	Hazardous reactions or instability may occur under certain conditions of storage or use
Conditions to avoid:	No specific data
Incompatible materials:	No specific data
Hazardous decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should be produced

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Section 11. Toxicological Information

Information on toxicological effects Acute toxicity: Not available		
Irritation/Corrosion:	Not available	
Sensitization:	Not available	
Mutagenicity:	Not available	
Carcinogenicity:	Not available	
Reproductive toxicity:	Not available	
Teratogenicity:	Not available	
Specific target organ toxicity (single exposure):	Not available	
Specific target organ: toxicity (repeated exposure):	Not available	
Aspiration hazard:	Not available	
Information on the likely: routes of exposure	Not available	
Potential acute effects: Eye contact: Inhalation: Skin contact: Ingestion:	No known significant effects or critical hazards No known significant effects or critical hazards No known significant effects or critical hazards No known significant effects or critical hazards	
Symptoms related to the physic Eye contact: Inhalation: Skin contact: Ingestion:	al, chemical and toxicological characteristics No specific data. No specific data. No specific data. No specific data. No specific data.	
Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate: effects: Not available Potential delayed effects: Not available		
Long term exposure Potential immediate: effects	Not available	
Potential delayed effects:	Not available	
Potential chronic health effects: General: Carcinogenicity: Mutagenicity: Teratogenicity: Developmental effects: Fertility effects:	Not available No known significant effects or critical hazards No known significant effects or critical hazards	
Numerical measures of toxicity Acute toxicity estimates:	Not available	

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Section 12. Ecological information

Toxicity:	Not available
Persistence/degradability:	Not available
<u>Bio accumulative potential:</u> <u>Mobility in soil</u> Soil/water	Not available
partition coefficient (Koc):	Not available
Other adverse effects:	No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.

International Inventories:	
USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:

USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances ENCS: Japanese Existing and New Chemical Substances IECSC: Chinese Inventory of Existing Chemical Substances KECL: Korean Existing and Evaluated Chemical Substances PICCS: Philippines Inventory of Chemical and Chemical Substances AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:

A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 28 Feb 2018

Key of abbreviations:		ATE: Acute Toxicity Estimate
		BCF: Bioconcentration Factor
		GHS: Globally harmonized Syatem of classification and labelling of chemicals
		IATA: International Air Transport Association
		IBC= Intermediate Bulk Container
		IMDG International maritime Dangerous goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
		UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.