

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-4, 500-4, 560-4 (pH 4.01 buffer solution)

Product code: 3999960018, 3999960029, 3999960146

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 Mixture

Substance or Mixture:

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

GHS Label elements:

Signal word: No Signal word

Hazard statement: 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 Hydrogen Phthalate	877-24-7	<2%
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

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: 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

Potential acute health effects: 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: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

Media: No Information available

Specific hazards arising from

the substance or mixture: No specific information available

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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

touch or walk through spilled material

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For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in

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 air

Methods and material for containment and cleaning up:

Method for Containment: 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

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure

they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be

necessary to reduce emissions to acceptable levels.

<u>Individual protection measures</u> Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate

techniques should be used to remove potentially contaminated clothing. Wash

contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-

shields.

Skin protection

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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: 4.01

pH: 4.01 Melting Point: Not avai

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:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:

Not available
Not available
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

not be produced.

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Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:
Irritation/Corrosion:
Sensitization:
Mutagenicity:
Carcinogenicity:
Reproductive toxicity:
Teratogenicity:
Not available
Not available
Not available
Not available
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:

No known significant effects or critical hazards
No known significant effects or critical hazards
Skin contact:

No known significant effects or critical hazards
Ingestion:

No known significant effects or critical hazards
No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:
Inhalation:
Skin contact:
Ingestion:
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: Not available

effects

Potential delayed effects: Not available

Potential chronic health effects: Not available

General:

Carcinogenicity:

No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates: Not available

Section 12. Ecological information

<u>Toxicity:</u> Not available

Persistence/degradability: Not available

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Bio accumulative potential: Not available

Mobility in soil Soil/water

partition coefficient (K_{OC}): 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	IATA
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

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CANINV Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

Kev 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: 6 March 2018

Key of abbreviation: ATE: Acute Toxicity Estimate

BCF: Bioconcentration Factor

GHS: Globally harmonized System 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.

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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: No Signal word

Hazard statement: 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

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: 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

No known significant effects or critical hazards Potential acute health effects:

None Known.

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

Use an extinguishing agent suitable for the surrounding fire.

have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media:

Unsuitable extinguishing

media:

Specific hazards arising

From the chemical:

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

In a fire or if heated, a pressure increase will occur and the container may burst.

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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

touch or walk through spilled material

If specialized clothing is required to deal with the spillage, take note of any information in For emergency responders:

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section 8 on suitable and unsuitable materials. See also the information in "For nonemergency 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 air

Methods and material for containment and cleaning up:

Method for Containment: 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

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to

ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process

equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate

techniques should be used to remove potentially contaminated clothing. Wash

contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-

shields.

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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:

Vapour pressure:

Vapour density:

Not available

Not available

Not available

Not available

Not available

Partition coefficient

n- octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:

Not available
Not available
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: Not available

routes of exposure

Potential acute effects:

Eye contact:

Inhalation:

No known significant effects or critical hazards
No known significant effects or critical hazards
No known significant effects or critical hazards
Ingestion:

No known significant effects or critical hazards
No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:
Inhalation:
Skin contact:
Ingestion:
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: Not available

effects

Potential delayed effects: Not available

Potential chronic health effects: Not available

General:

Carcinogenicity:

Mutagenicity:

No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates: Not available

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Section 12. Ecological information

<u>Toxicity:</u> Not available

Persistence/degradability: Not available

Bio accumulative potential:

Mobility in soil
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	IATA
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.

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Section 15. Regulatory information

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

International Inventories:

USINV Complies Complies **CANINV EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies Complies KECL **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.

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SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-9, 500-9, 560-9 (pH 9.18 buffer solution)

Product code: 3999960021, 3999960032, 3999960141

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 Mixture

Substance or Mixture:

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

GHS Label elements:

Signal word: No Signal word

Hazard statement: 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
Sodium Tetraborate Decahydrate	1303-96-4	< 0.28 %
Hydrochloric acid 1 M	7647-01-0	< 0.04 %
Water	7732-18-5	>99.68%

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

Chemical formula: Not applicable

Section 4. First Aid Measures

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Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: 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

Potential acute health effects: 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: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

Media: No Information available

Specific hazards arising from

the substance or mixture: No specific information available

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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

touch or walk through spilled material

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in

section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel"

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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 air

Methods and material for containment and cleaning up:

Method for Containment: 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

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure

they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will

be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate

techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with

side-shields.

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.

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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: 9.18

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 availableVapour pressure:Not availableVapour density:Not availableRelative density:Not available

Partition coefficient

n- octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:

Not available
Not available
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

not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity: Not available

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Irritation/Corrosion:
Sensitization:
Not available
Mutagenicity:
Carcinogenicity:
Reproductive toxicity:
Teratogenicity:
Not available
Not available
Not available
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:

No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:
Inhalation:
Skin contact:
Ingestion:
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: Not available

effects

Potential delayed effects: Not available

Potential chronic health effects: Not available

General:

Carcinogenicity:

Mutagenicity:

No known significant effects or critical hazards
Developmental effects:

No known significant effects or critical hazards
No known significant effects or critical hazards
No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates: Not available

Section 12. Ecological information

<u>Toxicity:</u> Not available

Persistence/degradability: Not available

Bio accumulative potential: Not available

Mobility in soil Soil/water

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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	IATA
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 Complies **EINECS/ELINCS ENCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies Complies **AICS**

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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 abbreviation: 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.

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SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-3; 560-3 (internal filling solution for pH combination electrode)

Product code: 3999960023; 3999960139

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 69089660

Section 2. Hazard identification

Classification of the Mixture

Substance or Mixture:

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

GHS Label elements:

Signal word: No Signal word

Hazard statement: 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 Chloride	7447-40-7	<25%
Water	7732-18-5	>75%

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

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: 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

Potential acute health effects:

Eye contact: Causes eye irritation

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: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

No Information available Media:

Specific hazards arising from

the substance or mixture: No specific information available

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

Fire-fighters should wear appropriate protective equipment self- contained breathing equipment for fire-fighters

apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

entering. Do not touch or walk through spilled material.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information

Revision Date: 1 March 2023 Document Number: SDS-201-WQI-001 Rev.3 Page: 2 | 7 In 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 air.

Methods and material for containment and cleaning up:

Method for Containment: 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

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to

ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process

Equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash

contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-

shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should

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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:

Colour:

Colourless

Odour:

Odourless

Odour Threshold:

PH:

Not available

Melting Point:

Not available

Not available

Not available

Not available

Not available

Flash point: [Product does not sustain combustion.]

Evaporation rate: Not available Flammability (solid, gas): Not available Lower and upper explosive: Not available

(Flammable) limits

Vapour pressure:Not availableVapour density:Not availableRelative density:Not availablePartition coefficient:Not available

n- octanol/water

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: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data

Incompatible materials: No specific data

Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition products should

Products be produced

Section 11. Toxicological Information

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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

<u>Teratogenicity:</u> 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 health effects:

Eye contact: Causes eye irritation

Inhalation:No known significant effects or critical hazardsSkin contact:No known significant effects or critical hazardsIngestion:No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include irritation, watering and redness

Inhalation:

Skin contact:

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: Not available

effects

Potential delayed effects: Not available

Long term exposure

Potential immediate: Not available

effects

Potential delayed effects: Not available

Potential chronic health effects: Not available

General:

Carcinogenicity:

Mo known significant effects or critical hazards

No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates: Not available

Section 12. Ecological information

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Toxicity: Not available

Persistence/degradability: Not available

Bio accumulative potential: Not available

Mobility in soil Soil/water

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	IATA
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

<u>Safety</u>, health and environmental regulations/legislation specific for the substance or mixture. International Inventories:

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USINV Complies **CANINV** Complies Complies **EINECS/ELINCS ENCS** Complies Complies **IECSC** 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

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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: 8 March 2018

Key of abbreviation: 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

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