

# **SAFETY DATA SHEET**

# **Singapore**

Section 1. Identification

**GHS** product identifier Coupling Buffer; part of 'Cy™3 Ab Labelling

Kit'

Catalogue Number PA33000

**Component Number** Q30060

Other means of identification Not available. **Product type** Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Uses advised against Reason

Not applicable.

+44 0800 515 313

Supplier

Cytiva Cytiva Singapore Amersham Place 1 Maritime Square #13-01 Little Chalfont Harbourfront Centre Singapore 099253 Buckinghamshire HP7 9NA United Kingdom

Emergency telephone number (with hours of operation)

(hours of operation: 8.30 pm - 5.30 pm)

Section 2. Hazards identification

Classification of the substance

or mixture

Not classified.

**GHS label elements** 

Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

result in classification

Prevention Not applicable. Response Not applicable. Storage Not applicable. Disposal Not applicable. Other hazards which do not None known.

> Article Number 25005404-2 Page: 1/8

> > Validation date: 01 October 2019

Version 6

# Section 3. Composition/information on ingredients

Substance/mixture Mixture Other means of identification Not available

**CAS** number/other identifiers

CAS number Not applicable. EC number Mixture. Chemical formula Not applicable.

% Ingredient name **CAS** number 497-19-8 sodium carbonate 9.58

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### 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. Check

for and 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 Wash out 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 exposed 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, acute and delayed

### Potential acute health effects

Eve contact No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. No known significant effects or critical hazards. Skin contact Ingestion No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact No specific data. Inhalation No specific data Skin contact No specific data. Ingestion No specific data.

# 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.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Hazardous thermal

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

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

chemical

Decomposition products may include the following materials:

decomposition products

carbon dioxide carbon monoxide metal oxide/oxides

fighters

Special protective actions for fire- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Article Number 25005404-2 Page: 2/8



Validation date: 01 October 2019

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) 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. Put on appropriate personal protective equipment.

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,

waterways, soil or air).

## Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8).

hygiene

Advice on general occupational 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. See also Section 8 for additional information on hygiene measures.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

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

**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

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

Article Number 25005404-2



Version 6

Validation date: 01 October 2019

Page: 3/8

# Section 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Color Colorless. Odor Odorless. Not available. Odor threshold

9.3 [Conc. (% w/w): 100%]

Not available. **Melting point Boiling point** Not available. Flash point Not applicable. **Burning time** Not applicable. **Burning rate** Not applicable. **Evaporation rate** Not available. Flammability (solid, gas) Non-flammable Lower and upper explosive

(flammable) limits

Not available.

Vapor pressure Not available. Vapor density Not available Not available. Relative density

Solubility Easily soluble in the following materials: cold water and hot water.

Solubility in water Not available Partition coefficient: n-octanol/ Not available

Not available. **Auto-ignition temperature Decomposition temperature** Not available SADT Not available. Viscosity Not available. Flow time (ISO 2431) 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

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

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

SADT Not available.

# Section 11. Toxicological information

### Information on toxicological effects

**Acute toxicity** 

Product/ingredient name Result **Species** Dose **Exposure** sodium carbonate LD50 Oral Rat 4090 mg/kg

Irritation/Corrosion

Not available.

**Sensitization** 

Not available.

**Mutagenicity** 

Not available

Carcinogenicity

Article Number 25005404-2 Page: 4/8

Validation date: 01 October 2019

Version 6

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

Not available.

of exposure

### Potential acute health effects

Eye contact No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

No specific data. Eye contact Inhalation No specific data. Skin contact No specific data. Ingestion 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

Not available.

General No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Product/ingredient name Oral (mg/ **Dermal** Inhalation Inhalation Inhalation (mg/kg) (dusts and kg) (gases) (vapors) (mg/l) mists) (mg/ (ppm) N/A N/A sodium carbonate 4090 N/A N/A

Article Number 25005404-2 Page: 5/8



Version 6

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
sodium carbonate	Acute EC50 242000 μg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 176000 μg/l Fresh water	Crustaceans - Amphipoda	48 hours
	Acute LC50 265000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 300000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours

### Persistence/degradability

Not available.

### **Bioaccumulative potential**

Not available.

### **Mobility in soil**

Soil/water partition coefficient (K Not available.

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Other adverse effects

No known significant effects or critical hazards.

# Section 13. Disposal considerations

## 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. Waste packaging should be recycled. 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	-	-	-

	ADR/RID	ADN
UN number	Not regulated.	Not regulated.
UN proper shipping name	-	-
Transport hazard class(es)	-	-
Packing group	-	-
Environmental hazards	No.	No.

Article Number 25005404-2



Page: 6/8

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.

Not available.

Transport in bulk according to Annex II of MARPOL and the IBC

Code

# Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

None

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

# Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **International lists**

### **National inventory**

Europe All components are listed or exempted. **United States** All components are listed or exempted. Canada inventory All components are listed or exempted. China All components are listed or exempted. Japan All components are listed or exempted. Malaysia All components are listed or exempted.

### Section 16. Other information

### **History**

Date of printing 06 May 2020 01 October 2019 Date of issue/Date of revision Date of previous issue 29 March 2017.

Version

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ATE = Acute Toxicity Estimate Key to abbreviations

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)

N/A = Not available UN = United Nations

# Procedure used to derive the classification

Classification Justification

Not classified.

References Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Article Number 25005404-2 Page: 7/8

Validation date: 01 October 2019

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.

Article Number 25005404-2

9 5 2 5 0 0 5 4 0 4 2

Page: 8/8 Validation date : 01 October 2019