# **GE** Healthcare

# Safety Data Sheet

Australia

Section 1. Identification

Product name Carbonic anhydrase (CA), 2 mg/mL; part of 'Demo

and training kit small molecules'

Supplier

Australia 1800 150 522

GE Healthcare Australia

Level 11, 32 Phillip Street

Parramatta NSW 2150

Catalogue Number 22-0618-61

Product type Liquid.

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

Identified uses

Knalytical chemistry. Use in laboratories

Scientific research and development

Company details

Manufacturer

GE Healthcare UK Ltd Amersham Place Little Chalfont Buckinghamshire HP7 9NA

Enaland +44 0870 606 1921

Emergency telephone number 000 and +61 2 9846 4000

Section 2. Hazard(s) 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** 

Not applicable. Prevention Response Not applicable. Not applicable. Storage Not applicable. Disposal Supplemental label elements Not applicable.

Other hazards which do not result

in classification

None known.



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## Section 3. Composition and ingredient information

#### CAS number/other identifiers

CAS number Not applicable.

EC number Nixture.

There are no 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

Eye contactNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

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

ingested or inhaled.

**Specific treatments** No specific treatment.

**Protection of first-aiders** Ro action shall be taken involving any personal risk or without suitable training.

## 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 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

Fromptly 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.



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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 spilt material. Put on appropriate personal protective equipment.

For emergency responders

Fspecialised 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** 

Kvoid dispersal of spilt 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 material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. 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

Fut 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 4 to 8°C (39.2 to 46.4°F). 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and 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

Themical-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.



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Respiratory protection

Sased 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.

Melting point
For C (32°F)

Boiling point
Flammability (solid, gas)

Partition coefficient: n-octanol/
Not available.

water

Decomposition temperature 

Not available.

Flow time (ISO 2431) 

Not available.

Aerosol product

Flame duration Not applicable.

## Section 10. Stability and reactivity

**Reactivity** So 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 № specific data.

Incompatible materials № specific data.

Hazardous decomposition

products

Inder 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

## Irritation/Corrosion

Not available

#### **Sensitisation**

Not available.

## Conclusion/Summary

**Skin** May cause allergic reactions in certain individuals.

**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



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Information on likely routes of

exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health 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.

## Symptoms related to the physical, chemical and toxicological characteristics

 Eye contact
 No specific data.

 Inhalation
 No specific data.

 Skin contact
 No specific data.

 Ingestion
 No specific data.

## Delayed and immediate effects as well as 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 

Mot available.

Potential delayed effects 

Mot available.

#### Potential chronic health effects

Not available.

General

No known significant effects or critical hazards.

## Numerical measures of toxicity

## Acute toxicity estimates

Not available.

## Section 12. Ecological information

#### Toxicity

Not available.

#### Persistence and degradability

Not available.

# **Bioaccumulative potential**

Not available.

#### Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.



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## Section 13. Disposal considerations

## Disposal methods

The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	ADG	ADR/RID	IMDG	IATA	
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
Proper shipping name	-	-	-	-	
Class	-	-	-	-	
Label					
PG	-	_	_	_	
Environmental hazards	<b>N</b> o.	No.	No.	No.	
Additional information	1 <sup>-</sup>	-	-	-	
Special precautions for		<b>Transport within user's premises:</b> 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

## Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Code

## Model Work Health and Safety Regulations - Scheduled Substances

Not available.

No listed substance

#### **International regulations**

Transport in bulk according to

Annex II of Marpol and the IBC

# $\underline{\textbf{Chemical Weapon Convention List Schedules I, II \& III Chemicals}}$

Not listed.

## Montreal Protocol (Annexes A, B, C, E)

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.

## Inventory list

Japan

Australia Not determined.

**Europe** All components are listed or exempted.

 United States
 Not determined.

 Canada inventory
 Not determined.

 China
 Not determined.

Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.

MalaysiaNot determined.New ZealandNot determined.



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## Section 16. Any other relevant information

**History** 

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msdslifesciences@ge.com

Procedure used to derive the classification

Classification Justification

Not classified.



Indicates information that has changed from previously issued version.

#### 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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