SIGMA-ALDRICH

Material Safety Data Sheet Version 3.0

Concentration

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Revision Date 08/22/2008 Print Date 04/16/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Company

Telephone

Formula

Emergency Phone #

Fax

Product name Angiotensin III

Product Number 10385 : Sigma Brand

2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA

: +1 9058299500 : +1 9058299292

: Sigma-Aldrich Canada, Ltd.

: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS : C46H66N12O9.C2H4O2

Molecular Weight : 2,543.3 g/mol

EC-No. Angiotensin II, 1-de-L-aspartic acid-

0

0

12687-51-3 3. HAZARDS IDENTIFICATION

Index-No.

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Not WHMIS controlled.

Target Organs Heart, Adrenal cortex.

HMIS Classification Health Hazard:

Emergency Overview

WHMIS Classification Not WHMIS controlled.

Flammability: Physical hazards:

Potential Health Effects May be harmful if inhaled. May cause respiratory tract irritation. Inhalation

May be harmful if absorbed through skin. May cause skin irritation. Skin May cause eye irritation. Eyes Ingestion

4. FIRST AID MEASURES

May be harmful if swallowed.

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If breathed in, move person into fresh air. If not breathing give artificial respiration

no data available

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Flash point

lf swallowed

In case of skin contact

In case of eye contact

5. FIRE-FIGHTING MEASURES Flammable properties

Special protective equipment for fire-fighters

Wash off with soap and plenty of water.

Flush eyes with water as a precaution.

Ignition temperature no data available Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Wear self contained breathing apparatus for fire fighting if necessary. 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid dust formation.

7. HANDLING AND STORAGE

Environmental precautions Do not let product enter drains.

Methods for cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.

Keep container tightly closed in a dry and well-ventilated place.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Storage

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Handling

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended storage temperature: -20 °C Store under inert gas. Keep in a dry place.

Contains no substances with occupational exposure limit values.

Personal protective equipment Respiratory protection

Hand protection For prolonged or repeated contact use protective gloves.

government standards such as NIOSH (US) or CEN (EU).

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate

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Safety glasses Hygiene measures

Appearance Form

Colour

Melting point

Safety data рΗ

Eye protection

powder

no data available

no data available no data available

no data available

no data available

Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx)

probable, possible or confirmed human carcinogen by IARC.

25 a/l

white

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point Flash point no data available Ignition temperature no data available

Lower explosion limit

Upper explosion limit

Water solubility

Storage stability

Materials to avoid Strong bases

10. STABILITY AND REACTIVITY

11. TOXICOLOGICAL INFORMATION Acute toxicity

Hazardous decomposition products

Stable under recommended storage conditions.

no data available Chronic exposure

IARC:

no data available

no data available Sensitisation

Irritation and corrosion

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which in turn affects metabolism of electrolytes and water.

Elimination information (persistence and degradability)

Signs and Symptoms of Exposure

Eyes May cause eye irritation. Ingestion May be harmful if swallowed. Target Organs Heart, Adrenal cortex.,

Potential Health Effects

12. ECOLOGICAL INFORMATION

Inhalation

no data available

Ecotoxicity effects

Skin

DSL Status

product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Observe all federal, state, and local environmental regulations. Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

Angiotensin II, 1-de-L-aspartic acid-

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WHMIS Classification Not WHMIS controlled. Not WHMIS controlled. 16. OTHER INFORMATION Further information Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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CAS-No. 12687-51-3

DOT (US) Not dangerous goods IMDG Not dangerous goods

no data available 13. DISPOSAL CONSIDERATIONS Product

no data available Further information on ecology

No component of this product present at levels greater than or equal to 0.1% is identified as

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Angiotensin is a potent vasoconstrictor. It acts directly on the adrenal gland to stimulate the release of aldosterone,

May be harmful if inhaled. May cause respiratory tract irritation.

May be harmful if absorbed through skin. May cause skin irritation.

Not dangerous goods

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a

guide. The information in this document is based on the present state of our knowledge and is applicable to the

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

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