

# Kit SDS Cover Sheet Pyrogene Bulk Kit 2880 Test Kit

Version 3.0 Revision Date 30.06.2021 Print Date 24.07.2021

# **Product Information**

Product name : Pyrogene Bulk Kit 2880 Test Kit

Material number : 50-658NV

# Components

Endotoxin (E.coli) Low Conc in PEG/Lactose

Recombinant Factor C Enzyme Solution

SDS attached rFC Buffer

SDS attached rFC Substrate Vial

SDS attached

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according to Work Health and Safety Regulations 2011

# Endotoxin (E.coli) Low Conc in PEG/Lactose

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Endotoxin (E.coli) Low Conc in PEG/Lactose

Manufacturer or supplier's details

Company : Capsugel Australia Pty Ltd.

Suite 610, 12 Century Circuit, Norwest NSW 2153, Australia

Lonza Ltd

Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland

 Telephone
 : Tel +61 3 9550 0883

 Telefax
 : Tel +61 3 9550 0890

 E-mail address
 : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

Recommended use of the chemical and restrictions on use

Recommended use : For Endotoxin Detection Use

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards which do not result in classification

May form combustible dust concentrations in air.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

# **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Substances with a workplace exposure limit		
Polyethylene glycol 8000	25322-68-3	

# **SECTION 4. FIRST AID MEASURES**

If inhaled : Remove to fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

If symptoms persist, call a physician.



according to Work Health and Safety Regulations 2011

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In case of skin contact : Wash off with soap and water.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice. Call a physician immediately.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

No information available.

Notes to physician : No information available.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry powder

Water spray Foam

Hazardous combustion products : Carbon oxides (Cox)

Specific extinguishing methods : Use water spray to cool unopened containers.

Special protective equipment for

firefighters

In the event of fire, wear self-contained breathing apparatus.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency

procedures

: Avoid dust formation.

Use personal protective equipment.

Environmental precautions : No special environmental precautions required.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

Methods and materials for containment and cleaning up

After cleaning, flush away traces with water.

Dispose of in accordance with local regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and :

explosion

Avoid dust formation.

Take precautionary measures against static discharges.

Advice on safe handling : Avoid formation of respirable particles.

Provide sufficient air exchange and/or exhaust in work rooms.

Avoid contact with skin and eyes.

Hygiene measures : Wash hands before breaks and immediately after handling the

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# Endotoxin (E.coli) Low Conc in PEG/Lactose

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product.

Avoid contact with skin, eyes and clothing.

Conditions for safe storage : Keep tightly closed in a dry and cool place.

Recommended storage temperature : 2 - 8 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
Polyethylene glycol 8000	25322-68-3	TWA	10 mg/m3	WEEL

**Engineering measures** : Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Material : Nitrile rubber Rate of permeability : > 480 min

Eye protection : Safety glasses with side-shields

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

No special protective equipment required.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Colour : white

Odour : odourless

Odour Threshold : no data available

pH : Not applicable

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available



according to Work Health and Safety Regulations 2011

# Endotoxin (E.coli) Low Conc in PEG/Lactose

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Flash point : Not applicable

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapour pressure : no data available

Relative vapour density : Not applicable

Relative density : no data available

Density : no data available

Water solubility : partly soluble

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : Not applicable

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : Not applicable

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Stable under normal conditions.

Conditions to avoid : Keep away from heat and sources of ignition.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No decomposition if stored normally.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**



according to Work Health and Safety Regulations 2011

# Endotoxin (E.coli) Low Conc in PEG/Lactose

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Acute inhalation toxicity : Remarks: no data available

Skin corrosion/irritation

Remarks: no data available

Serious eye damage/eye irritation

Remarks: no data available

Respiratory or skin sensitisation

Remarks: no data available

Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

Carcinogenicity

Remarks: no data available

Reproductive toxicity

Effects on fertility : Remarks: no data available

**STOT - single exposure**Remarks: no data available

STOT - repeated exposure

Remarks: no data available

**Further information** 

Remarks: No data is available on the product itself.

The following toxicological data refer to:

Polyethylene glycol(CAS-No.: 25322-68-3)

**Acute toxicity** 

Acute oral toxicity : LD50 (Rat): > 20 g/kg

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rabbit): > 20 g/kg

Skin corrosion/irritation

Species: Rabbit

Result: Mild skin irritation

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# Endotoxin (E.coli) Low Conc in PEG/Lactose

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Serious eye damage/eye irritation

Species: Rabbit

Result: Mild eye irritation

Respiratory or skin sensitisation

Species: Guinea pig Result: not sensitizing

Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test

Result: negative

**STOT - single exposure** Remarks: no data available

STOT - repeated exposure

Remarks: no data available

**Aspiration toxicity** 

No aspiration toxicity classification

**Further information** 

Remarks: no data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Toxicity to fish : Remarks: no data available

Persistence and degradability

Biodegradability : Result: no data available

**Bioaccumulative potential** 

Bioaccumulation : Remarks: no data available

Mobility in soil

Distribution among environmental

compartments

Remarks: no data available

Other adverse effects

Additional ecological information : No data is available on the product itself.



according to Work Health and Safety Regulations 2011

# Endotoxin (E.coli) Low Conc in PEG/Lactose

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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with local regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

IATA Not dangerous goods

UN number: Not applicableProper shipping name: Not applicableTransport hazard class: Not applicablePacking group: Not applicable

Environmental hazards : no

IMDG Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : Marine pollutant: no

:

ADR Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : no

.

RID Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the

**IBC Code** 

: Not applicable



according to Work Health and Safety Regulations 2011

# Endotoxin (E.coli) Low Conc in PEG/Lactose

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#### **SECTION 15. REGULATORY INFORMATION**

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

Standard for the Uniform Scheduling of Medicines and Poisons

Not applicable

#### **SECTION 16. OTHER INFORMATION**

Revision Date : 30.06.2021

Full text of other abbreviations

WEEL : US. OARS. WEELs Workplace Environmental Exposure Level

Guide, as amended

WEEL / TWA : Time weighted average

AllC - Australian Inventory of Industrial Chemicals: ANTT - National Agency for Transport by Land of Brazil: ASTM - American Society for the Testing of Materials: bw - Body weight: CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS -Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals: SADT -Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format : dd.mm.yyyy



according to Work Health and Safety Regulations 2011

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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according to Work Health and Safety Regulations 2011

# **Recombinant Factor C Enzyme Solution**

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#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Recombinant Factor C Enzyme Solution

Manufacturer or supplier's details

Company : Capsugel Australia Pty Ltd.

Suite 610, 12 Century Circuit, Norwest NSW 2153, Australia

Lonza Ltd

Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland

 Telephone
 : Tel +61 3 9550 0883

 Telefax
 : Tel +61 3 9550 0890

 E-mail address
 : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

Recommended use of the chemical and restrictions on use

Recommended use : For Endotoxin Detection Use

## **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards which do not result in classification

No information available.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

# **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Substances with a workplace exposure limit		
Sucrose	57-50-1	

# **SECTION 4. FIRST AID MEASURES**

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.

If skin irritation persists, call a physician.

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In case of eye contact Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

If swallowed Immediately give large quantities of water to drink.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and

effects, both acute and delayed

No information available.

Notes to physician No information available.

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Water spray

> Dry powder Foam

Hazardous combustion products No hazardous combustion products are known

Specific extinguishing methods Use water spray to cool unopened containers.

Special protective equipment for

firefighters

In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective

equipment and emergency

procedures

**Environmental precautions** Prevent product from entering drains.

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Use personal protective equipment.

## **SECTION 7. HANDLING AND STORAGE**

explosion

Advice on protection against fire and : Take precautionary measures against static discharges.

Advice on safe handling

: No special precautions required.

Hygiene measures

Handle in accordance with good industrial hygiene and safety

practice.

Conditions for safe storage

: No special storage conditions required.

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# **Recombinant Factor C Enzyme Solution**

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#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sucrose	57-50-1	TWA (Inhalable dust.)	10 mg/m3	AU NOEL
		TWA (Inspirable dust.)	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH

**Engineering measures** : Avoid splashes.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : Nitrile rubber Rate of permeability : > 480 min

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

No special protective equipment required.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aqueous solution

Colour : clear, yellow

Odour : no data available

Odour Threshold : no data available

pH : 5,7 - 6,3

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available



according to Work Health and Safety Regulations 2011

# **Recombinant Factor C Enzyme Solution**

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Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper

flammability limit

no data available

Lower explosion limit / Lower

flammability limit

no data available

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : no data available

Density : no data available

Water solubility : no data available

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Stable under normal conditions.

Conditions to avoid : no data available

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No decomposition if stored normally.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**



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# **Recombinant Factor C Enzyme Solution**

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Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation

Remarks: no data available

Serious eye damage/eye irritation

Remarks: no data available

Respiratory or skin sensitisation

Remarks: no data available

Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

Carcinogenicity

Remarks: no data available

Reproductive toxicity

Effects on fertility : Remarks: no data available

STOT - single exposure

Remarks: no data available

STOT - repeated exposure

Remarks: no data available

**Further information** 

Remarks: No data is available on the product itself.

# **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Toxicity to fish : Remarks: no data available

Persistence and degradability

Biodegradability : Result: no data available

**Bioaccumulative potential** 

Bioaccumulation : Remarks: no data available



according to Work Health and Safety Regulations 2011

# **Recombinant Factor C Enzyme Solution**

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Mobility in soil

Distribution among environmental

compartments

: Remarks: no data available

Other adverse effects

Additional ecological information : no data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with local regulations.

# **SECTION 14. TRANSPORT INFORMATION**

IATA Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : no

IMDG Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : Marine pollutant: no

ADR Not dangerous goods

UN number: Not applicableProper shipping name: Not applicableTransport hazard class: Not applicablePacking group: Not applicable

Environmental hazards : no



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# Recombinant Factor C Enzyme Solution

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**RID** Not dangerous goods

> **UN** number Not applicable Proper shipping name Not applicable Not applicable **Transport hazard class** Packing group Not applicable

**Environmental hazards** no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the

**IBC Code** 

: Not applicable

#### **SECTION 15. REGULATORY INFORMATION**

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

Standard for the Uniform Scheduling of Medicines and Poisons

Not applicable

# **SECTION 16. OTHER INFORMATION**

**Revision Date** 30.06.2021

Full text of other abbreviations

**ACGIH** : US. ACGIH Threshold Limit Values

**AU NOEL** Australia. National Workplace OELs (Workplace Exposure

Standards for Airborne Contaminants, Appendix A), as

amended

**AU OEL** Australia. OELs. (Adopted National Exposure Standards for

Atmospheric Contaminants in the Occupational Environment)

ACGIH / TWA Time weighted average AU NOEL / TWA Time weighted average Time weighted average AU OEL / TWA

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS -Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of



according to Work Health and Safety Regulations 2011

# **Recombinant Factor C Enzyme Solution**

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Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Effect Level; NOELR - No Observable Effect Level; NOELR - Noello Concerning NOELR - NOELR - NOELR - NOELR

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according to Work Health and Safety Regulations 2011

## rFC Buffer

Version 3.0 Revision Date 30.06.2021 Print Date 24.07.2021

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : rFC Buffer

Manufacturer or supplier's details

Company : Capsugel Australia Pty Ltd.

Suite 610, 12 Century Circuit, Norwest NSW 2153, Australia

Lonza Ltd

Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland

 Telephone
 : Tel +61 3 9550 0883

 Telefax
 : Tel +61 3 9550 0890

 E-mail address
 : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

Recommended use of the chemical and restrictions on use

Recommended use : For Endotoxin Detection Use

# **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Not a hazardous substance or mixture.

**GHS** label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No information available.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components** 

No hazardous ingredients

## **SECTION 4. FIRST AID MEASURES**

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.

If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

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#### rFC Buffer

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If swallowed : Immediately give large quantities of water to drink.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

No information available.

Notes to physician : No information available.

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

Dry powder Foam

Hazardous combustion products : Carbon oxides (Cox)

Specific extinguishing methods : Use water spray to cool unopened containers.

Special protective equipment for

firefighters

In the event of fire, wear self-contained breathing apparatus.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective

equipment and emergency

procedures

Environmental precautions : Try to prevent the material from entering drains or water

courses.

Methods and materials for containment and cleaning up

Dispose of in accordance with local regulations.

Use personal protective equipment.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and :

explosion

No special precautions required.

Advice on safe handling : No special precautions required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Conditions for safe storage : No special storage conditions required.

Lonza

according to Work Health and Safety Regulations 2011

## rFC Buffer

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Avoid splashes.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : Nitrile rubber Rate of permeability : > 480 min

Eye protection : Safety glasses with side-shields

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

No special protective equipment required.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aqueous solution

Colour : no data available

Odour : no data available

Odour Threshold : no data available

pH : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper

flammability limit

: no data available

Lower explosion limit / Lower : no data available

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according to Work Health and Safety Regulations 2011

## rFC Buffer

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flammability limit

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : no data available

Density : no data available

Water solubility : no data available

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Stable under normal conditions.

Conditions to avoid : no data available

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No decomposition if stored normally.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation

Remarks: no data available

# Serious eye damage/eye irritation

Lonza

according to Work Health and Safety Regulations 2011

## rFC Buffer

Version 3.0 Revision Date 30.06.2021 Print Date 24.07.2021

Remarks: no data available

Respiratory or skin sensitisation

Remarks: no data available

Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

Carcinogenicity

Remarks: no data available

Reproductive toxicity

Effects on fertility : Remarks: no data available

**STOT - single exposure**Remarks: no data available

**STOT - repeated exposure** Remarks: no data available

**Further information** 

Remarks: No data is available on the product itself.

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Toxicity to fish : Remarks: no data available

Persistence and degradability

Biodegradability : Result: no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Mobility in soil

Distribution among environmental

compartments

: Remarks: no data available

Other adverse effects

Additional ecological information : no data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**



according to Work Health and Safety Regulations 2011

#### rFC Buffer

Version 3.0 Revision Date 30.06.2021 Print Date 24.07.2021

**Disposal methods** 

Waste from residues : Dispose of in accordance with local regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

IATA Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : no

IMDG Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : Marine pollutant: no

.

ADR Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : no

.

RID Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the

**IBC Code** 

: Not applicable

# **SECTION 15. REGULATORY INFORMATION**

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

Standard for the Uniform Scheduling of Medicines and Poisons

Not applicable



according to Work Health and Safety Regulations 2011

#### rFC Buffer

Version 3.0 Revision Date 30.06.2021 Print Date 24.07.2021

#### **SECTION 16. OTHER INFORMATION**

Revision Date : 30.06.2021

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS -Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT -Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System Date format : dd.mm.yyyy

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materials or in any process, unless specified in the text.

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according to Work Health and Safety Regulations 2011

#### rFC Substrate Vial

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : rFC Substrate Vial

Manufacturer or supplier's details

Company : Capsugel Australia Pty Ltd.

Suite 610, 12 Century Circuit, Norwest NSW 2153, Australia

Lonza Ltd

Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland

 Telephone
 : Tel +61 3 9550 0883

 Telefax
 : Tel +61 3 9550 0890

 E-mail address
 : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

Recommended use of the chemical and restrictions on use

Recommended use : For Endotoxin Detection Use

## **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Not a hazardous substance or mixture.

**GHS** label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No information available.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components** 

No hazardous ingredients

## **SECTION 4. FIRST AID MEASURES**

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.

If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

according to Work Health and Safety Regulations 2011

#### rFC Substrate Vial

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If swallowed Immediately give large quantities of water to drink.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed No information available.

No information available. Notes to physician

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Water spray

Dry powder Foam

Hazardous combustion products No hazardous combustion products are known

Specific extinguishing methods Use water spray to cool unopened containers.

Special protective equipment for

firefighters

In the event of fire, wear self-contained breathing apparatus.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective

equipment and emergency

procedures

**Environmental precautions** Try to prevent the material from entering drains or water

courses.

Methods and materials for containment and cleaning up Wipe up with absorbent material (e.g. cloth, fleece).

Use personal protective equipment.

Dispose of in accordance with local regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and :

explosion

No special precautions required.

Advice on safe handling : No special precautions required.

: Handle in accordance with good industrial hygiene and safety Hygiene measures

practice.

Conditions for safe storage : No special storage conditions required.

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## rFC Substrate Vial

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Avoid splashes.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : Nitrile rubber Rate of permeability : > 480 min

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

No special protective equipment required.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aqueous solution

Colour : no data available

Odour : no data available

Odour Threshold : no data available

pH : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper

flammability limit

: no data available

Lower explosion limit / Lower : no data available

Lonza

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flammability limit

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according to Work Health and Safety Regulations 2011

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