

### **SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

## NHBE-Bronchial Epi w/o RA, BEGM, amp

Version 3.0 Revision Date 24.04.2024 Print Date 25.04.2024

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

Product name : NHBE-Bronchial Epi w/o RA, BEGM, amp

Material number : CC-2541

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 research use only.

Restrictions on use : NOT FOR USE IN GMP MANUFACTURING, NOR HUMAN

OR ANIMAL IN VIVO OR DIAGNOSTIC 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				
Dimethyl sulfoxide	67-68-5			



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

If inhaled : No special precautions required.

Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

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

If skin irritation persists, call a physician.

Wash with water and soap as a precaution.

If on clothes, remove clothes.

In the case of skin irritation or allergic reactions see a physi-

cian.

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

If eye irritation persists, consult a specialist.

Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

Protect unharmed eye.

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.

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and ef-

fects, both acute and delayed

: No information available. No information available.

Notes to physician : No information available.

Treat symptomatically.

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

Suitable extinguishing media : Water spray

Dry powder

Foam

Water spray

Alcohol-resistant foam

Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Heating or fire can release toxic gas.

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Sodium oxides Hazardous combustion products

> Hydrogen chloride (HCI) Carbon oxides (COx) Sulphur oxides (SOx)

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

Use a water spray to cool fully closed containers.

Special protective equipment for

firefighters

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

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

Use personal protective equipment.

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

Personal precautions, protective equipment and emergency proce-

dures

**Environmental precautions** 

Use personal protective equipment. Use personal protective equipment.

: Prevent product from entering drains.

courses.

Methods and materials for contain-

ment 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

Try to prevent the material from entering drains or water

/ national regulations (see section 13).

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).

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

explosion

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

Normal measures for preventive fire protection.

Advice on safe handling No special precautions required.

> No special precautions required. For personal protection see section 8.

Handle in accordance with good industrial hygiene and safety Hygiene measures

practice.

Handle in accordance with good industrial hygiene and safety

practice.

Conditions for safe storage : No special storage conditions required.

Keep container tightly closed.



Keep in a well-ventilated place.

To maintain product quality, do not store in heat or direct sun-

light.

Materials to avoid : No special restrictions on storage with other products.

Further information on storage sta-

bility

: No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible consentre	Basis
		exposure)	ble concentra- tion	
Dimethyl sulfoxide	67-68-5	TWA	250 ppm	US WEEL

**Engineering measures** : Avoid splashes.

Use only in area provided with appropriate exhaust ventila-

tion.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

No personal respiratory protective equipment normally re-

quired.

In the case of vapour formation use a respirator with an ap-

proved filter.

Hand protection

Material : Nitrile rubber Rate of permeability : > 480 min

Remarks : Wear protective gloves. Break through time : > 480 min

Eye protection : Tightly fitting safety goggles

Safety glasses

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

centration of the dangerous substance at the work place.

No special protective equipment required.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Lightweight protective clothing

## **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 : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Upper explosion limit / Upper flam-

mability limit

No data available

Lower explosion limit / Lower flam-

mability 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 : soluble

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.

No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

Stable under recommended storage conditions.

Possibility of hazardous reactions : Stable under normal conditions.



Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : No data available

Heat

Incompatible materials : Strong oxidizing agents

Oxidizing agents

Strong acids and strong bases

Hazardous decomposition products : No data available

No decomposition if used as directed.

### **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

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

**Aspiration toxicity** 

No aspiration toxicity classification

### **Further information**

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Remarks : No data is available on the product itself.

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 available

No data available

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

**Disposal methods** 

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

Dispose of contents/container in accordance with local regula-

tion.

Contact waste disposal services.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.



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

IATA Not dangerous goods

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

IMDG Not dangerous goods

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

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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

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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

Therapeutic Goods (Poisons Standard) Instrument

Not applicable

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

Revision Date : 24.04.2024

Date format : dd.mm.yyyy

### Full text of other abbreviations

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US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

US WEEL / TWA : 8-hr TWA

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

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