SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: Clostridium difficile Toxin B  
Product Number: CDB-TNL  
Company: The Native Antigen Company Ltd.  
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

- Acute toxicity, Inhalation (Category 2)
- Acute toxicity, Dermal (Category 2)
- Acute toxicity, Oral (Category 2)
- Skin irritation
- Eye irritation
  
Very toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Label elements

Pictogram

Signal word: Danger

Hazard statement(s)
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.

Precautionary statement(s)
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing.
- P284 Wear respiratory protection when dealing with powder.

Hazard symbol(s) 
- Toxic

R-phrase(s)
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

S-phrase(s)
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Toxin B from Clostridium difficile. Sample is of biological origin and is presented as a white lyophilized solid in a glass vial. Each vial contains no more than 500μg. Additional components present: 0.05M Hepes, 0.15M NaCl and 5% sucrose.

4. FIRST AID MEASURES

If inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly at eyewash station for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Resuspend powder in safety cabinet. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

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www.thenativeantigencompany.com  contact@thenativeantigencompany.com
VAT No: 102038475  Registration No. 7386339
Eye protection
Safety glasses
Skin and body protection
Laboratory coat
Hygiene measures
Avoid contact with skin, eyes and clothing. Wash and dry hands after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
White powder, lyophilized
Safety data
pH: pH 7.2 when resuspended
Melting point: no data available
Boiling point: no data available
Flash point: no data available
Ignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Water solubility: soluble

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.
Conditions to avoid
Avoid multiple freeze thaw cycles
Materials to avoid
Strong oxidizing agents
Hazardous decomposition products
None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
No data available
Aspiration hazard
No data available
Potential health effects
Toxic if inhaled. May cause respiratory tract irritation.
Harmful if swallowed.
Toxic if absorbed through skin. May cause skin irritation.
Causes eye irritation.
Additional Information
12. ECOLOGICAL INFORMATION

Toxicity
   No data available
Persistence and degradability
   No data available
Bioaccumulative potential
   No data available
Mobility in soil
   No data available
PBT and vPvB assessment
   No data available
Other adverse effects
   No data available

13. DISPOSAL CONSIDERATIONS

Product
   Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
   Dispose of as unused product.

14. TRANSPORT INFORMATION

   UN Number: 3462
   Class: 6.1
   Packing group: I
   Proper shipping name: TOXINS EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.
   Shipped as Excepted Quantity transport class 6.1

15. REGULATORY INFORMATION

   This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

   Take special care when working in conjunction with hypodermic needles. If i.v. or i.m. injection should occur, consult a physician.

Last update: 21 May 2012
Prepared by: The Native Antigen Company

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