

MATERIAL SAFETY DATA SHEET (MSDS)

Product: BOTU TURBO

REVIEW: 00

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1- IDENTIFICATION: BOTU TURBO

Product application: Extender for transport of equine cooled semen.

Product exempted from registration at the Ministry of Agriculture, Livestock, and Supply (MAPA): Decree No. 5053, of April 22, 2004, Art. 44-XIII.

Company Name: BOTUPHARMA INDÚSTRIA E COMÉRCIO DE PRODUTOS VETERINÁRIOS LTDA.

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2- HAZARDS IDENTIFICATION

The product is classified as non-hazardous.

Appropriate labeling elements



Pictograms:

Warning word: WARNING

3- COMPOSITION/INFORMATION ON INGREDIENTS

Physical Form: Solid.

Packing Characteristic: Sachet containing 8,5 g.

Composition: skimmed milk powder UHT sterilized, sugars, amino acids, antioxidants, pentoxifyline, and excipients.

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4- FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this MSDS.

Skin: Wash exposed skin with sufficient amount of water to remove material. In case of skin irritation: Get medical advice. Take this MSDS.

Eyes: Rinse thoroughly with water for several minutes. In case of contact lenses, remove them if it is easy. Continue rinsing. If eye irritation persists: Get medical advice. Take this MSDS.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash the mouth of victim with plenty of water. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this MSDS.

Most important symptoms and effects, both acute and delayed: Ingestion of high doses of the product may cause stomach discomfort with nausea, vomiting and diarrhea.

Notes to physician: Avoid contact with the product to help the victim. If necessary, the symptomatic treatment should include, above all, supportive measures such as correction of hydroelectrolytic, metabolic disorders, as well as respiratory assistance. In case of contact with skin do not rub the affected area.

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5- FIRE FIGHTING MEASURES

Extinguishing media: The product is not considered a fire hazard.

6- CONTROL MEASURES FOR SPILL OR LEAK

Personal Precautions

For non-emergency staff: Preventively isolate sources of ignition. Do not smoke. Do not touch damaged containers or spilled material without wearing suitable clothing.

Avoid contact with eyes and skin. Use personal protective equipment as described in section 8.

For emergency staff: Use full PPE with side shields glasses, suitable protective gloves, safety boots, and safety clothing to protect the entire body.

Environmental Precautions

Do not allow product to reach sewage system.

7- HANDLING AND STORAGE

Appropriate technical measures for handling

Precautions for safe handling: Handle in an airy area or with general local exhaust ventilation. Avoid dust formation. Avoid product exposition. Avoid contact with incompatible materials. Use personal protective equipment as described in Section 8.

Hygiene measures: Wash hands and face carefully after handling and before eating, drinking, smoking or going to the bathroom. Contaminated clothing should be changed and washed prior to reuse. Remove contaminated clothing and protective equipment before going to food areas.

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Safe storage conditions, including any incompatibility

Prevention of fire and explosion: The product is not expected to present a fire or explosion hazard.

Suitable conditions: Store in a dry and cool place, avoiding excessive light and heat. Keep the product in its original packaging, always closed and out of reach of children and pets.

8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

Biological indicators: Not established.

Personal protection measures

Eye/face protection: Glasses with side shields.

Skin and body protection: Appropriate protective gloves, safety boots, and safety clothing to protect the entire body.

Respiratory protection: It is recommended the use of a respiratory protection mask and, where necessary, a filter against vapors and fogs.

Thermal hazards: It does not present thermal hazards.

9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid, powder, and yellowish.

Odour and odour threshold: Not applicable.

pH: 6,7 - 7,2.

Osmolality (mOsm): 340-380.

Melting point/freezing point: Not applicable.

Initial boiling point and boiling range: Not applicable.

Flash point: Not applicable.

Evaporation rate: Not applicable.

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Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits: Not applicable.

Vapour pressure: Not applicable.

Vapour density: Not applicable.

Relative density: Not applicable.

Water solubility: Not applicable.

Partition coefficient: n-octanol/water: Not applicable.

Auto-ignition temperature: Not applicable.

Decomposition temperature: Not applicable.

Viscosity: Not applicable.

Other information: Not applicable.

10- STABILITY AND REACTIVITY

Stability and Reactivity: Product stable under normal conditions of temperature and pressure.

Possibility of hazardous reactions: No data available.

11- TOXICOLOGICAL INFORMATION

Acute toxicity: No data available.

Local effects: No data available.

12- ECOLOGICAL INFORMATION

Environmental effects, behavior and impacts of the product

Avoid soil contamination.

Other effects: No further environmental effects are known for this product.

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13- DISPOSAL CONSIDERATIONS

Recommended treatment and disposal methods applied to the product

Remainders of products: Keep product residues in their original packaging and properly closed. Disposal should be in accordance with the regulations for the product.

Used packaging: Do not reuse, puncture or otherwise throw fire in the empty containers. These may contain product residues and should be kept closed and shipped for appropriate disposal as set forth for the product.

Further information: Dispose of according to local regulations.

14- TRANSPORT INFORMATION

Terrestrial: Resolution No. 420 of February 12th, 2004 of the National Land Transport Agency (ANTT), approves the Supplementary Instructions to the Regulations of the Land Transport of Dangerous Goods and their modifications.

Waterway: DPC - Directory of Ports and Coasts (Transportation in Brazilian waters); Maritime Authority Standards (NORMAM) - NORMAM 01 / DPC: Ships used in navigation in the open sea; NORMAM 02/DPC: Vessels used in inland navigation; IMO - "International Maritime Organization"; International Maritime Dangerous Goods Code (IMDG Code).

Aerial: ANAC - National Civil Aviation Agency - Resolution n° 129 of December 8th, 2009; RBAC n° 175 - (Brazilian Civil Aviation Regulation) - Transport of Dangerous Goods in Civil Aircraft); IS n° 175-001 - Supplementary Instruction; ICAO - "International Civil Aviation Organization" - Doc 9284-NA / 905; IATA - "International Air Transport Association"; Dangerous Goods Regulation (DGR).

UN number: Not classified as dangerous for transport in the different manners.

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15- REGULATORY INFORMATION

Specific regulations for the chemical: Federal Decree No. 2.657, of July 3rd, 1998. Standard ABNT-NBR 14725: 2012. Law No. 12,305, of August 2nd, 2010 (National Solid Waste Policy). Decree n° 7404, of December 23th, 2010. Ordinance n° 229, of May 24th, 2011 - Alters Regulatory Norm n° 26.

16- OTHER INFORMATION

Important information, but not specifically described to the previous sections.

This MSDS has been prepared on the basis of current knowledge on the proper handling of the product and under normal conditions of use, according to the application specified on the package. All information contained herein and the results of product reviews are the responsibility of the manufacturer.



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