



The Power to Question

SAFETY DATA SHEET (MSDS)

Date of Preparation or Revision: 10/6/04

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:

Catalog Number: sc-3582

Product Name: Agitoxin

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2. COMPOSITION/

INFORMATION ON INGREDIENTS:

Chemical Name:

Agitoxin-2, *Leiurus quinquestriatus hebraeus*

Synonyms:

AgTX₂, H-Gly-Val-Pro-Ile-Asn-Val-Ser-Cys-Thr-Gly-Ser-Pro-Gln-Cys-Ile-Lys-

Pro-Cys-Lys-Asp-Ala-Gly-Met-Arg-Phe-Gly-Lys-Cys-Met-Asn-Arg-Lys-Cys-His-
Cys-Thr-Pro-Lys-OH

Hazardous Ingredient: Agitoxin-2,

Leiurus quinquestriatus hebraeus

Molecular Weight:

4090.9

Molecular Formula: C₁₆₉H₂₇₈N₅₄O₄₈S₈

3. HAZARDOUS IDENTIFICATION:

May be

harmful by ingestion, inhalation or absorption through skin. Material may be fatal if allowed to enter the bloodstream. Exposure to material may cause the following: immediate local pain; hyperexcitability and restlessness; salivation and lacrimation; accelerated respiration; convulsions and muscle spasms; spastic paralysis with tautness of limbs. Material may be fatal due to respiratory failure, which may occur from a few minutes to several hours following exposure.

4. FIRST AID MEASURES:

In

cases of skin contact, wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. Consult a physician.

In cases of eye contact, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.

In cases of inhalation, remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen and consult a physician. If breathing stops, give artificial respiration and consult a physician.

In cases of ingestion, wash mouth out with water and consult the local poison center and a physician.

5. FIRE-FIGHTING

MEASURE:

Extinguishing Media: Dry chemical powder, carbon dioxide, water spray, alcohol or polymer foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus

and full protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosive Hazards: Upon thermal decomposition, it may

EMIT TOXIC GASES.

6.ACCIDENTAL

RELEASE MEASURES:

Steps to be Taken if

Material is Released or Spilled: Evacuate area. Wear a respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up and place in a suitable container. Avoid raising dust. Hold for appropriate disposal. Wash spill site and ventilate area after material pickup is complete.

7.HANDLING AND STORAGE:

Store in a

tightly closed container in a -20°C freezer. Material is harmful. Avoid contact with material. Avoid prolonged or repeated exposure. Lab should be equipped with a safety shower and an eye wash station. Wash thoroughly after handling material.

8.EXPOSURE CONTROLS/PERSONAL

PROTECTION:

Protective Equipment: Wear suitable

protective clothing, such as chemical resistant gloves and chemical safety goggles.

Respiratory Protection and Ventilation: Use a NIOSH/MSHA approved respirator. Handle in a chemical fume hood with adequate ventilation.

9.PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Lyophilized solid.

Flash Point: N/A

Solubility:

Reconstitute in 100 mM NaCl, 10 mM

Tris, 1 mM EDTA, and 0.1% BSA, pH 7.5.

10. STABILITY AND REACTIVITY:

Stability: Stable

under normal handling procedures.

Incompatibilities

and Conditions to Avoid: N/A

Hazardous

Combustion or Decomposition Products: Upon thermal decomposition, may emit toxic gases including carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.

11.TOXICOLOGICAL

INFORMATION:

Note: To the best of

our knowledge, the toxicological properties of Agitoxin-2, *Leiurus quinquestriatus hebraeus* have not been thoroughly investigated. The information below pertains to the similar compound, Scorpion Venom, *Leiurus quinquestriatus hebraeus*.

RTECS Number: YX3965400 (Scorpion Venom, *Leiurus quinquestriatus hebraeus*)

Toxicity Data and

References:

Scu; mus; LD₅₀: 460 µg/kg Muscle

contraction and spasticity; excitement; BP elevation not

characterized in autonomic section 1976. *Journal de Pharmacologie*. 7, 39.

Refer to the Registry of

Toxic Effects of Chemical Substances (RTECS) for a definition of abbreviations used in the above text and for additional information. This report contains only selected information from the RTECS.

12.ECOLOGICAL INFORMATION: No information available

13.DISPOSAL CONSIDERATIONS:

Country, federal, state, and local regulations are varied and

change frequently. For this reason, we recommend that you contact your local Department of Health Services for information on the disposal of this product or arrange for disposal by a licensed disposal company.

14. TRANSPORTATION INFORMATION:

UN Number: N/A
Proper Shipping Name: N/A IATA
Class: N/A IATA Packing Group: N/A

15. REGULATORY INFORMATION: Xn

Risk

Phrases: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases: S36: Wear suitable protective clothing.

16. OTHER INFORMATION:

Avoid contact with material. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Material should only be handled by qualified, experienced professionals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel.