IMB SAFETY DATA SHEET

Safety Data Sheet for Research Chemicals Revision Date 2/10/19 According to S7(2) Work Health and Safety Regulation (2011)

1. Identification

Material name	BufoTabs
Company information	Institute for Molecular Bioscience University of Queensland Brisbane, QLD 4072, Australia
Emergency	+61 449 182 140
General information Phone:	+61 7 3346 2980
Fax:	+61 7 3346 2990

2. Hazard(s) Identification

Full hazard information is not available for the formulation. A precautionary approach must be taken by a person using, handling or storing the formulation. To the best of our knowledge the toxicological properties have not been thoroughly investigated. The formulation is derived from cane toad toxin, thus it is likely that some or all components have toxic properties.

Based on the currently available data, the active ingredients in BufoTabs may: be irritating to mucous membranes and upper respiratory tract; be harmful by inhalation, ingestion or skin absorption.

3. Composition and Information on Ingredients

Formulation:	Each tablet co	(>99%) impregnated with active ingredients (< 1%). ontains the equivalent of 5-20% of the active und in the skin of a single cane toad.
Active Ingredients:	Typical analys	sis:
Chemical Name	Cas No.	Concentration (within impregnation solution)
Marinobufagin	470-42-8	73-77%
Telocinobufagin	772-26-4	8-10%
Bufalin	465-21-4	8-10%
Resinobufagin	465-39-4	2-5%
Arenobufagin	464-74-4	1-4%

4. First Aid Measures

FIRST AID PROCEDURES

Eye contact with dust or particles released from damaged BufoTabs

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.

Have eyes examined and tested by a medical professional.

Skin contact with BufoTabs

Immediately wash skin with soap and plenty of water.

Ingestion of BufoTabs

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Inhalation of dust or particles released from damaged BufoTabs

If inhaled, move person into fresh air and give supplemental oxygen if available. If not breathing give artificial respiration. Seek medical attention.

Version 2.0

5. Fire Fighting Measures

Flammable properties	Not a fire hazard.
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 firefighting if necessary.

6. Accidental Release Measures

Personal precautions	Avoid breathing dust from broken BufoTabs.
Environmental precautions	Do not use in any manner contrary to the indicated intended use or project instructions.
Methods for cleaning up	Use cloth to wipe up and prevent dust formation. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling	Avoid dust formation. Avoid skin or eye contact.
Storage	Store dry and tightly closed in the supplied container.
Recommended storage	Room temperature (< 30°C)
temperature:	

8. Exposure controls and personal protection

We are not aware of any relevant national exposure limit.PERSONAL PROTECTIVE EQUIPMENTEye / face protectionAvoid contact with eyes.Skin protectionAvoid contact with skin; wear waterproof gloves.

9. Physical and Chemical Properties

Appearance	Solid ceramic ring
Colour	Pale to light green
Odour	Mild
Odour threshold	Not available
Form	Solid
рН	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability limits in air	Not available
Vapour density	Not available
Specific gravity	Not available
Solubility (water)	Not available

10. Stability and Reactivity

Chemical stability	Stable under normal conditions.
Conditions to avoid	Do not store in direct sunlight, or excessive heat (> 30°C)

11. Toxicological Information

To the best of our knowledge the toxicological properties of the majority of active ingredients have not been thoroughly investigated. Purified Bufalin has been classified as *Acute Toxicity: Oral, Category 2* under the GHS system by several vendors, however this and other active ingredients make up only a very minor portion (significantly less than 1%) of the final formulation.

12. Ecological Information

BufoTabs contain 5-20% of the quantity of active ingredient found in a single adult cane toad and do not contain any ingredients that exhibit ecotoxicity.

13. Disposal considerations

Waste Disposal	Do not dispose of in the environment. Recover and place into standard (urban, rural, or industrial) waste disposal steam.
Contaminated packaging	Do not reuse for purposes other than storing BufoTabs.
14. Transport Information	
IATA / ADG	Not dangerous goods
15. Regulatory Information	
Further information:	This formulation is prepared for use only by approved participants within the <i>Cane Toad Challenge</i> research project.
16. Other Information	
Updated information	The contact information provided can be used to request updates to this SDS. Updates will be provided to approved project participants when available.
Further information	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the formulation with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the formulation. We shall not be held liable for any damage resulting from handling or from contact with the above formulation. See also associated Material Shipping Conditions for further conditions.