

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product (material) Name:** Digitonin. Catalogue # C096.  
**Other Names:**  
**Recommended Use:** A buffer additive.

**Supplier Name:** ProSciTech  
**Postal Address:** PO Box 111, Thuringowa Central Qld. 4817 Australia  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444  
**Fax Number:** (07) 4773 2244  
**Emergency Contact:** (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

## SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC.  
**Risk Phrases:**  
**Safety Phrases:**

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**SUBSTANCE:**  
**Chemical Identity:**  
**Common Name(s):**  
**CAS Number(s):**

### MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Digitonin	11024-24-1	100

## SECTION 4 - FIRST AID MEASURES

**Swallowed:** SLIGHT INGESTION - Remove dentures if any. Watch for an obstruction in the victim's mouth. Remove if possible what is causing the obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person drink several glasses of water or milk. INDUCE VOMITING. Seek immediate medical attention. SERIOUS INGESTION - Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Remove dentures if any. Watch for an obstruction in the victim's mouth. Remove if possible what is causing the obstruction but do not force fingers or a hard object between the victims teeth. If a soft pad can be inserted between the victim's teeth, it will protect the tongue from being bitten. A badly bleeding tongue immensely complicates the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING. Lower the head so that the vomit will not reenter the mouth and throat. If convulsions occur, do not restrain the victim, but do remove objects with which they might injure or orient the victim to prevent them from striking fixed heavy objects. If the convulsions cease, turn the victim on the side or face down so that any fluid in the mouth will drain. Seek immediate medical attention.

**Eye:** Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention.

**Skin:** SERIOUS SKIN CONTACT- Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

SLIGHT CONTACT - If clothes are contaminated, remove them as quickly as possible, protecting your own hands and body. Place the person under running water (shower). If contact with bare skin has been made, gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Inhaled:**

SERIOUS INHALATION - Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

SLIGHT EXPOSURE - Allow the person to rest in a well ventilated area. Seek immediate medical attention.

**First Aid Facilities:** Safety Shower, Eyebath

**Medical Attention & Special Treatment:**

ADDITIONAL INFORMATION:

### SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** SMALL FIRE: Use DRY chemicals, CO<sub>2</sub>, water spray or foam.  
LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

**Hazards from Combustion Products:** These products are carbon oxides (CO, CO<sub>2</sub>).

**Precautions for Fire Fighters:** Use appropriate protective equipment for any chemical fire, including breathing apparatus.

**Hazchem Code:**

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:**

**Containment and clean up:** SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container.  
LARGE SPILL: Poisonous solid. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.

### SECTION 7 - HANDLING & STORAGE

**Precautions for Safe Handling:** PRECAUTIONS - Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT ingest. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

**Conditions for Safe Storage:** Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards:** No exposure standard allocated.

**Biological Limit Values:** No biological limit allocated.

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protective Equipment:** Splash goggles. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves (impervious). Wear appropriate respirator when ventilation is inadequate. Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** Solid.  
**Odour:** Not available.  
**pH:** Not available.  
**Vapour pressure:** 0 mm of Hg (@ 20°C)  
**Vapour density:** Not available.  
**Boiling point/range:** Decomposes.  
**Freezing/melting point:** 237°C  
**Solubility:** Insoluble in cold water.  
**Specific gravity or density:** Not available.  
**Flash Point:** Not available.  
**Flammable (explosive) limits:** Not available.  
**Ignition temperature:** Not available.  
**Additional Information:**

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions of use.  
**Conditions to avoid:**  
**Incompatible Materials:**  
**Hazardous Decomposition Products:**  
**Hazardous Reactions:**

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute and chronic health effects:** TOXICITY TO ANIMALS: Acute oral toxicity (LD50): 51 mg/kg(Rat).  
**Possible routes of exposure:** Ingestion, skin contact, eye contact and inhalation.  
**Range of effects following exposure:** Very dangerous in case of ingestion. Slightly dangerous to dangerous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Very slightly to slightly dangerous in case of skin contact (permeator). Severe over-exposure can result in death. Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact.  
**Dose likely to cause injury:** Very dangerous in case of ingestion. Slightly dangerous to dangerous in case of skin contact (irritant) of eye contact (irritant), of inhalation. Very slightly to slightly dangerous in case of skin contact (permeator).  
**Delayed effects:** Toxicity of the product to the reproductive system: Not available. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.  
**Relevant negative data:** Not available.

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:**  
**Persistence and degradability:** PRODUCTS OF BIODEGRADATION: These products are carbon oxides (CO, CO2).  
 TOXICITY OF THE PRODUCTS OF BIODEGRADATION: The products of degradation are more toxic.  
**Mobility:**  
**Additional Information:**

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods:** Recycle to process, if possible. Consult your local or regional

authorities.

**Special Precautions:****SECTION 14 - TRANSPORT INFORMATION**

<b>UN Number:</b>	UN2811
<b>UN Proper Shipping Name:</b>	Toxic solid, organic, n.o.s. (Digitonin)
<b>Class and Subsidiary risk:</b>	6.1
<b>Packing Group:</b>	III
<b>Special Precautions for User:</b>	
<b>Hazchem Code:</b>	

**SECTION 15 - REGULATORY INFORMATION**

<b>Poison Schedule Number:</b>	None allocated
--------------------------------	----------------

**SECTION 16 - OTHER INFORMATION**

<b>Date of preparation of MSDS:</b>	October 2009
-------------------------------------	--------------

The information published in this Material Safety Data Sheet has been compiled from data in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

---