

## Microbank™

### Section 1. Chemical product and company identification

|                               |  |                         |
|-------------------------------|--|-------------------------|
| <b>Common name</b>            | : <b>Microbank™</b>  | <b>Code</b>             |
| <b>Trade name</b>             | : Microbank™;<br>Microbank™ - Broth Only;<br>Microbank™;   | PL160<br>PL163<br>PL170 |
| <b>Material uses</b>          | : Sterile vials, containing a cryopreservative & porous beads, which serve as carriers to support microorganisms.                              |                         |
| <b>Supplier/ Manufacturer</b> | : Pro-Lab Diagnostics, 20 Mural Street, Unit 4, Richmond Hill, ON, Canada L4B 1K3<br>Tel: +1-905-731-0300 Fax: +1-905-731-0206 www.pro-lab.com |                         |
| <b>In case of emergency</b>   | : 905-731-0300 –Monday to Friday 8:30 am to 5:00 pm Eastern Standard Time.<br>416-230-0692 –Outside the above hours.                           |                         |

### Section 2. Hazards identification

|  |   |
|--|---|
| <b>Physical state</b>                                | : Liquid.   |
| <b>Emergency overview</b>                            | : No specific hazard.<br>USE WITH CARE.<br>Follow good industrial hygiene practice.   |
| <b>Routes of entry</b>                               | : Dermal contact. Eye contact. Inhalation. Ingestion.   |
| <b>Potential acute health effects</b>                |   |
| <b>Eyes</b>  | : No known significant effects or critical hazards.   |
| <b>Skin</b>  | : No known significant effects or critical hazards.   |
| <b>Inhalation</b>                                    | : No known significant effects or critical hazards.   |
| <b>Ingestion</b>                                     | : No known significant effects or critical hazards.   |
| <b>Potential chronic health effects</b>              | : CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [sucrose].<br>MUTAGENIC EFFECTS: Not available.<br>TERATOGENIC EFFECTS: Not available. |
| <b>Medical conditions aggravated by overexposure</b> | : Repeated or prolonged exposure is not known to aggravate medical condition.   |

See toxicological Information (section 11)

### Section 3. Composition, Information on Ingredients

|                      | <b>CAS number</b> | <b>% by weight</b> |
|----------------------|-------------------|--------------------|
| <b>United States</b> |                   |                    |
| Sucrose              | 57-50-1           | 15 - 30            |
| Glycerin, (Glycerol) | 56-81-5           | 7 - 10             |
| <b>Canada</b>        |                   |                    |
| Sucrose              | 57-50-1           | 15 - 30            |
| Glycerin, (Glycerol) | 56-81-5           | 7 - 10             |

This material is classified as not hazardous under OSHA regulations in the United States and the WHMIS in Canada.

See Chapters 8, 11 and 14 for details.

### Section 4. First aid measures

- Eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if irritation occurs.
- Skin contact** Wash with soap and water. Get medical attention if irritation occurs.

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

## Section 5. Fire fighting measures

- Flammability of the product** : May be combustible at high temperature.
- Auto-ignition temperature** : The lowest known value is 369.85°C (697.7°F) (Glycerin, (Glycerol)).
- Flash point** : The lowest known value is Closed cup: 159.85°C (319.7°F). (Tagliabue.). Open cup: 176°C (348.8°F). (Cleveland.). (Glycerin, (Glycerol))
- Products of combustion** : These products are carbon oxides (CO, CO<sub>2</sub>).
- Fire fighting media and instructions** : Use an extinguishing agent suitable for surrounding fires.
- No specific hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Store at room temperature.

## Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.  
Recommended: Safety glasses.
- Respiratory** : Not applicable.
- Hands** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  
>8 hour(s) (breakthrough time): Disposable vinyl gloves.
- Skin/Body** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Body: Recommended: Lab coat.



**Personal protection in case of a large spill** : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

**Product name****Exposure limits****United States**

Sucrose

**ACGIH TLV (United States, 1/2004).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.**NIOSH REL (United States, 12/2001).**TWA: 5 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fractionTWA: 10 mg/m<sup>3</sup> 10 hour(s). Form: Total**OSHA PEL (United States, 8/1997).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fractionTWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust

Glycerin, (Glycerol)

**ACGIH TLV (United States, 9/2004).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Mist**OSHA PEL (United States, 8/1997).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fractionTWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: All forms.**Canada**

Sucrose

**ACGIH TLV (United States, 1/2004).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.

Glycerin, (Glycerol)

**ACGIH TLV (United States, 9/2004).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Mist

**Consult local authorities for acceptable exposure limits.**

## Section 9. Physical and chemical properties

|                                   |   |
|-----------------------------------|---|
| <b>Physical state</b>             | : Liquid.   |
| <b>pH</b>                         | : Neutral.  |
| <b>Boiling/condensation point</b> | : The lowest known value is 100°C (212°F) (Water). Weighted average: 124.92°C (256.9°F)                               |
| <b>Melting/freezing point</b>     | : May start to solidify at 19.85°C (67.7°F) based on data for: Glycerin, (Glycerol). Weighted average: 2.6°C (36.7°F) |
| <b>Specific gravity</b>           | : Weighted average: 1.13 (Water = 1)  |
| <b>Vapor pressure</b>             | : The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).  |
| <b>Vapor density</b>              | : The highest known value is 3.1 (Air = 1) (Glycerin, (Glycerol)). Weighted average: 0.95 (Air = 1)                   |
| <b>Evaporation rate</b>           | : >1 (Glycerin, (Glycerol)) compared to Ether (anhydrous).  |
| <b>Ionicity (in water)</b>        | : Amphoteric. (Water).  |
| <b>Solubility</b>                 | : Easily soluble in cold water, hot water, methanol, acetone.   |

## Section 10. Stability and reactivity

|  |  |
|--|--|
| <b>Stability and reactivity</b>                | : The product is stable.   |
| <b>Incompatibility with various substances</b> | : Reactive with oxidizing agents.<br>Slightly reactive to reactive with acids. |
| <b>Hazardous polymerization</b>                | : Will not occur.  |

## Section 11. Toxicological information

### Acute Effects

- Eyes** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Potential chronic health effects** : CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [sucrose].  
MUTAGENIC EFFECTS: Not available.  
TERATOGENIC EFFECTS: Not available.

## Section 12. Ecological information

- Products of degradation** : The final products of biodegradation are carbon oxides and water. Nitrogen and sulfur oxides and metal salts may also be produced in some cases.

## Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

## Section 14. Transport information

### Classification

**TDG/DOT/IMDG/IATA**: Not regulated.

**NAERG** : Not applicable.

### Label

Not applicable.

### Additional information

Not applicable.

## Section 15. Regulatory information

### United States

- HCS Classification** : Not regulated.
- U.S. Federal regulations** : TSCA : All components listed.  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: Sucrose; Glycerin, (Glycerol)  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sucrose: Delayed (Chronic) Health Hazard; Glycerin, (Glycerol): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: Disodium Phosphate  
Clean air act (CAA) 112 accidental release prevention: No products were found.  
Clean air act (CAA) 112 regulated flammable substances: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: No products were found.

**State regulations** : Pennsylvania RTK: Sucrose: (generic environmental hazard); Glycerin, (Glycerol): (generic environmental hazard); Disodium Phosphate: (environmental hazard, generic environmental hazard)  
 Massachusetts RTK: Sucrose; Glycerin, (Glycerol); Disodium Phosphate  
 New Jersey: Disodium Phosphate

**Canada**

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
 DSL : All components listed.

**International regulations**

**International lists** : All components listed are listed on major international inventories or exempted from being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI/MOL), Philippines (RA6969).

**Section 16. Other information**

|   |                            |   |
|---|----------------------------|---|
| <b>Hazardous Material Information System (U.S.A.)</b> : | <b>Health</b>              | 1 |
|   | <b>Fire hazard</b>         | 0 |
|   | <b>Reactivity</b>          | 0 |
|   | <b>Personal protection</b> | C |



**Date of issue** : 04/15/2005

**Version** : 1

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.