



# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company/undertaking

### Identification of the substance/preparation

**Product code** BL104ARC  
**Product name** DEFIB HORSE BLOOD

### Company/Undertaking Identification

Life Technologies  
5791 VAN ALLEN WAY  
PO BOX 6482  
CARLSBAD, CA 92008  
+1 760 603 7200

LIFE TECHNOLOGIES LIMITED  
3 FOUNTAIN DRIVE  
INCHINNAN BUSINESS PARK  
PAISLEY, PA4 9RF  
SCOTLAND  
44-141 814-6100

### **24 hour Emergency Response (Transport):**

866-536-0631  
301-431-8585  
Outside of the U.S. ++1-301-431-8585

**For research use only. Not intended for human or animal diagnostic or therapeutic uses.**

## 2. Hazards identification

### **In accordance with local and national regulations,**

The product is classified and labelled in accordance with Directive 1999/45/EC. REGULATION (EC) No 1272/2008  
Classification according to EU Directives 67/548/EEC or 1999/45/EC.

### **GHS - Classification**

#### **Signal word**

not hazardous

#### **Health hazard**

not hazardous

#### **Physical hazards**

not hazardous

#### **European Union**

Not hazardous

### **EU Specific Hazard Statements**

#### **R-phrase(s)**

None

#### **S-phrase(s)**

None

#### **Principle Routes of Exposure/**

#### **Potential Health effects**

|                   |  |
|-------------------|--|
| <b>Eyes</b>       | May cause eye irritation with susceptible persons. |
| <b>Skin</b>       | May cause skin irritation in susceptible persons.  |
| <b>Inhalation</b> | May be harmful by inhalation.                      |
| <b>Ingestion</b>  | May be harmful if swallowed.                       |

#### **Specific effects**

|                              |      |
|------------------------------|------|
| <b>Carcinogenic effects</b>  | none |
| <b>Mutagenic effects</b>     | none |
| <b>Reproductive toxicity</b> | none |
| <b>Sensitisation</b>         | none |

**Target Organ Effects** No known effects under normal use conditions

### 3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### 4. FIRST AID MEASURES

|                           |  |
|---------------------------|--|
| <b>Skin contact</b>       | Rinse with plenty of water. If symptoms arise, call a physician.   |
| <b>Eye contact</b>        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.              |
| <b>Ingestion</b>          | Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice. |
| <b>Inhalation</b>         | Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.                                     |
| <b>Notes to physician</b> | Treat symptomatically.   |

### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                  | Water spray. Carbon dioxide (CO2). Foam. Dry chemical.       |
| <b>Special protective equipment for firefighters</b> | Wear self-contained breathing apparatus and protective suit. |

### 6. ACCIDENTAL RELEASE MEASURES

|                                |  |
|--------------------------------|--|
| <b>Personal precautions</b>    | Use personal protective equipment.     |
| <b>Methods for cleaning up</b> | Soak up with inert absorbent material. |

#### Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

### 7. HANDLING AND STORAGE

|                 |   |
|-----------------|---|
| <b>Handling</b> | Avoid contact with skin, eyes and clothing. Wear personal protective equipment. |
| <b>Storage</b>  | Keep in a dry, cool and well-ventilated place.                                  |

### 8. Exposure controls/personal protection

#### Exposure limits

We are not aware of any national exposure limit.

|                                    |  |
|------------------------------------|--|
| <b><u>Engineering measures</u></b> | Ensure adequate ventilation, especially in confined areas. |
|------------------------------------|--|

#### Personal protective equipment

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**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection** Impervious gloves.  
**Eye protection** Safety glasses with side-shields.  
**Skin and body protection** Lightweight protective clothing.  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

|                                 |                          |                      |
|---------------------------------|--------------------------|----------------------|
| <b>Form</b>                     | liquid                   |                      |
| <b>Appearance</b>               | No information available |                      |
| <b>Odour</b>                    | No information available |                      |
| <b>Boiling Point/Range</b>      | °C No data available     | °F No data available |
| <b>Melting point/range</b>      | °C No data available     | °F No data available |
| <b>Flash point</b>              | °C No data available     | °F No data available |
| <b>Autoignition temperature</b> | °C No data available     | °F No data available |
| <b>oxidising properties</b>     | No information available |                      |
| <b>Water solubility</b>         | soluble                  |                      |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Stability</b>                        | Stable under normal conditions.                             |
| <b>Materials to avoid</b>               | No dangerous reaction known under conditions of normal use. |
| <b>Hazardous decomposition products</b> | None under normal use.                                      |
| <b>polymerisation</b>                   | Hazardous polymerisation does not occur.                    |

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not hazardous

### Principle Routes of Exposure/ Potential Health effects

|                              |  |
|------------------------------|--|
| <b>Eyes</b>                  | May cause eye irritation with susceptible persons. |
| <b>Skin</b>                  | May cause skin irritation in susceptible persons.  |
| <b>Inhalation</b>            | May be harmful by inhalation                       |
| <b>Ingestion</b>             | May be harmful if swallowed.                       |
| <b>Carcinogenic effects</b>  | none   |
| <b>Mutagenic effects</b>     | none   |
| <b>Reproductive toxicity</b> | none   |
| <b>Sensitisation</b>         | none   |

**Target Organ Effects**                      No known effects under normal use conditions

**12. ECOLOGICAL INFORMATION**

|                            |                           |
|----------------------------|---------------------------|
| <b>Ecotoxicity effects</b> | No information available. |
| <b>Mobility</b>            | No information available. |
| <b>Biodegradation</b>      | Inherently biodegradable. |
| <b>Bioaccumulation</b>     | Does not bioaccumulate.   |

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**IATA**

|                             |  |
|-----------------------------|--|
| <b>Proper shipping name</b> | Not classified as dangerous in the meaning of transport regulations. |
| <b>Hazard class</b>         | None   |
| <b>Subsidiary Class</b>     | None   |
| <b>Packing group</b>        | None   |
| <b>UN-No</b>                | None   |

**15. Regulatory information**

**International Inventories**

|                                  |          |
|----------------------------------|----------|
| <b>International Inventories</b> | Complies |
|----------------------------------|----------|

**16. OTHER INFORMATION**

**Reason for Revision**                      (M)SDS sections updated

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

**End of Safety Data Sheet**