

# SAFETY DATA SHEET

Envirobead™ - Apple

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

### Identification of the substance or preparation

**Product name** : Envirobead™ - Apple **Code**  
**Trade name** : Envirobead™ - Apple PL 604/100  
**Use of the substance/preparation** : Autoclave deodorant to be used when autoclaving laboratory waste (one capsule per autoclave load).

### Company/undertaking identification

**Supplier/Manufacturer** : Pro-Lab Diagnostics, 20 Mural Street, Unit 4, Richmond Hill, ON, Canada L4B 1K3  
Tel: +1-905-731-0300 Fax: +1-905-731-0206 www.pro-lab.com  
**Emergency telephone number** : +44 (0)151 353 1613 -Monday to Friday 9:00 am to 5:00 pm.  
+44 (0)7714 429 646 -Outside the above hours.

## 2. Composition/information on ingredients

**Substance/preparation** : Preparation

| Ingredient name  | CAS number | %       | EC number | Classification  |
|--|------------|---------|-----------|-----------------|
| Diethyl phthalate  | 84-66-2    | 40 - 60 | 201-550-6 | Not classified. |
| See section 16 for the full text of the R-phrases declared above |            |         |           |                 |

Occupational exposure limits, if available, are listed in section 8.

## 3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

See section 11 for more detailed information on health effects and symptoms.

## 4. First-aid measures

### First-aid measures

- 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.
- Skin contact** : Wash with soap and water. Get medical attention if irritation occurs.
- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : These products are carbon oxides.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

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

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Not available.

## 8. Exposure controls/personal protection

### Ingredient name

Diethyl phthalate

### Occupational exposure limits

**EH40-OES (United Kingdom (UK), 5/2003).**

STEL: 10 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms

TWA: 5 mg/m<sup>3</sup> 8 hour/hours. Form: All forms

### Exposure controls

- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Chemical-resistant, impervious gloves 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/hours (breakthrough time): Natural rubber (latex).
- Eye protection** : 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, gases or dusts.  
Recommended: Splash goggles.
- Skin protection** : 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.



## 9. Physical and chemical properties

### General information

#### Appearance

- Physical state** : Liquid contained in a gelatin capsule.
- Colour** : Clear.
- Odour** : Apple-like.

### Important health, safety and environmental information

- Boiling point** : Weighted average: 263.14°C (505.7°F)
- Melting point** : Weighted average: -37.21°C (-35°F)
- Flash point** : Closed cup: >93.3°C (199.9°F).(Pensky-Martens.)
- Vapour pressure** : 0.07 kPa (0.5 mm Hg) (at 20°C)
- Relative density** : 1.06 g/cm<sup>3</sup>

- Solubility** : Insoluble in cold water, hot water.
- Vapour density** : Weighted average: 6.91 (Air = 1)
- Evaporation rate** : <0.005 (Diethyl phthalate) compared with Butyl acetate.

**Other information**

- Auto-ignition temperature** : The lowest known value is 456.85°C (854.3°F) (Diethyl phthalate).

## 10. Stability and reactivity

- Stability** : The product is stable.
- Materials to avoid** : Reactive with oxidizing materials.
- Hazardous decomposition products** : These products are carbon oxides.

## 11. Toxicological information

**Potential acute health effects**

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

**Acute toxicity**

| <u>Ingredient name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|------------------------|-------------|---------------|--------------|----------------|
| Diethyl phthalate      | LD50        | 8600 mg/kg    | Oral         | Rat            |
|                        | LD50        | 6172 mg/kg    | Oral         | Mouse          |
|                        | LD50        | 8600 mg/kg    | Oral         | Guinea pig     |

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** :
- Other adverse effects** : Not available.

## 12. Ecological information

**Ecotoxicity data**

| <u>Ingredient name</u> | <u>Species</u>                 | <u>Period</u> | <u>Result</u> |
|------------------------|--------------------------------|---------------|---------------|
| Diethyl phthalate      | Scenedesmus subspicatus (EC50) | 48 hour/hours | 35 mg/l       |
|                        | Scenedesmus subspicatus (EC50) | 48 hour/hours | 62 mg/l       |
|                        | Daphnia magna (EC50)           | 48 hour/hours | 86 mg/l       |
|                        | Oncorhynchus mykiss (LC50)     | 96 hour/hours | 12 mg/l       |
|                        | Lepomis macrochirus (LC50)     | 96 hour/hours | 16.7 mg/l     |
|                        | Pimephales promelas (LC50)     | 96 hour/hours | 16.8 mg/l     |

- Mobility** : Not available.
- Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilt 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.
- Waste classification** : Not applicable.
- European waste catalogue (EWC)** : Not available.

**Hazardous waste**

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

## 14. Transport information

**International transport regulations**

**Classification: ADR/ADNR/IMDG/IATA:** Not regulated.

**Label:** Not applicable.

**Additional information**

## 15. Regulatory information

**EU regulations****Risk phrases**

: This product is not classified according to EU legislation.

**Product use**

: Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.  
- Industrial applications.

**Additional warning phrases**

: Safety data sheet available for professional user on request.

**EU statistical classification  
(Tariff Code)**

: 32089091

## 16. Other information

**Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : Not applicable.

**Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)** : Not applicable.

**Training advice** : Not available.

**Recommended use and restrictions** : Not available.

**Further information** : Not available.

**Key data sources** : Not available.

**Revision comments** : Not available.

**History**

**Date of issue** : 07/30/2005

**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.*

**Version** 1

**Page:** 4/4