

# Material Safety Data Sheet



## Prolex™ *E. coli* Non-O157 Identification Kit

### 1. Product and company identification

<b>Product name</b>	: Prolex™ <i>E. coli</i> Non-O157 Identification Kit	<b>Code</b>
<b>Trade name</b>	: Prolex™ <i>E. coli</i> Non-O157 Identification Kit <i>E. coli</i> O26 Latex Reagent <i>E. coli</i> O45 Latex Reagent <i>E. coli</i> O103 Latex Reagent <i>E. coli</i> O111 Latex Reagent <i>E. coli</i> O121 Latex Reagent <i>E. coli</i> O145 Latex Reagent Negative Control Latex Reagent <i>E. coli</i> O91 Latex Reagent <i>E. coli</i> O104 Latex Reagent	PL.1070 PL.1071 PL.1072 PL.1073 PL.1074 PL.1075 PL.1076 PL.1077 PL.1078 PL.1079
<b>Material uses</b>	: Prolex™ <i>E. coli</i> Non-O157 Identification Kit provides a rapid method to identify the six most common non-O157 Shiga toxin producing <i>Escherichia coli</i> (STEC): O26, O103, O111, O145, O45, O121 isolated from cultured specimens. Additional reagents for O91 and O104 are also available.	
<b>Supplier/Manufacturer</b>	: 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	
<b>MSDS authored by</b>	: KMK Regulatory Services Inc.	
<b><u>In case of emergency</u></b>	: 905-731-0300 –Monday to Friday 8:30 am to 5:00 pm Eastern Standard Time. 416-230-0692 –Outside the above hours.	

### 2. Hazards identification

#### Emergency overview

<b>Physical state</b>	: PL.1073 Liquid. [Suspension.] PL.1079 Liquid. [Suspension.] PL.1074 Liquid. [Suspension.] PL.1075 Liquid. [Suspension.] PL.1076 Liquid. [Suspension.] PL.1071 Liquid. [Suspension.] PL.1072 Liquid. [Suspension.] PL.1078 Liquid. [Suspension.] PL.1077 Liquid. [Suspension.]
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<b>Color</b>	: PL.1073 Blue. PL.1079 Blue. PL.1074 Blue. PL.1075 Blue. PL.1076 Blue. PL.1071 Blue. PL.1072 Blue. PL.1078 Blue. PL.1077 Blue.
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**Hazard statements** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**Precautionary measures** : No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

## 2. Hazards identification

- OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
- Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.
- Inhalation** :
- PL.1073 No known significant effects or critical hazards.
  - PL.1079 No known significant effects or critical hazards.
  - PL.1074 No known significant effects or critical hazards.
  - PL.1075 No known significant effects or critical hazards.
  - PL.1076 No known significant effects or critical hazards.
  - PL.1071 No known significant effects or critical hazards.
  - PL.1072 No known significant effects or critical hazards.
  - PL.1078 No known significant effects or critical hazards.
  - PL.1077 No known significant effects or critical hazards.
- Ingestion** :
- PL.1073 No known significant effects or critical hazards.
  - PL.1079 No known significant effects or critical hazards.
  - PL.1074 No known significant effects or critical hazards.
  - PL.1075 No known significant effects or critical hazards.
  - PL.1076 No known significant effects or critical hazards.
  - PL.1071 No known significant effects or critical hazards.
  - PL.1072 No known significant effects or critical hazards.
  - PL.1078 No known significant effects or critical hazards.
  - PL.1077 No known significant effects or critical hazards.
- Skin** :
- PL.1073 No known significant effects or critical hazards.
  - PL.1079 No known significant effects or critical hazards.
  - PL.1074 No known significant effects or critical hazards.
  - PL.1075 No known significant effects or critical hazards.
  - PL.1076 No known significant effects or critical hazards.
  - PL.1071 No known significant effects or critical hazards.
  - PL.1072 No known significant effects or critical hazards.
  - PL.1078 No known significant effects or critical hazards.
  - PL.1077 No known significant effects or critical hazards.
- Eyes** :
- PL.1073 No known significant effects or critical hazards.
  - PL.1079 No known significant effects or critical hazards.
  - PL.1074 No known significant effects or critical hazards.
  - PL.1075 No known significant effects or critical hazards.
  - PL.1076 No known significant effects or critical hazards.
  - PL.1071 No known significant effects or critical hazards.
  - PL.1072 No known significant effects or critical hazards.
  - PL.1078 No known significant effects or critical hazards.
  - PL.1077 No known significant effects or critical hazards.

### Potential chronic health effects

- Chronic effects** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

## 2. Hazards identification

<b>Target organs</b>	: PL.1073	Not available.
	PL.1079	Not available.
	PL.1074	Not available.
	PL.1075	Not available.
	PL.1076	Not available.
	PL.1071	Not available.
	PL.1072	Not available.
	PL.1078	Not available.
	PL.1077	Not available.

### Over-exposure signs/symptoms

<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b>Skin</b>	: No specific data.
<b>Eyes</b>	: No specific data.
<b>Medical conditions aggravated by overexposure</b>	: None known.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
<b>Inhalation</b>	: Move exposed person to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
<b>Notes to physician</b>	: No specific treatment. Treat symptomatically.

## 5. Fire-fighting measures

<b>Flammability of the product</b>	: No specific fire or explosion hazard.
<b><u>Extinguishing media</u></b>	
<b>Suitable</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	: None known.
<b>Hazardous decomposition products</b>	: No specific data.
<b>Special protective equipment for fire-fighters</b>	: No special protection is required.

## 6. Accidental release measures

- Personal precautions** : Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Spill** : Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Storage** : Store at 2°C to 8°C. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### Occupational exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
- Personal protection**
- Respiratory** : Not required under normal conditions of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Not required under normal conditions of use. Use gloves appropriate for work or task being performed.
- Eyes** : Not required under normal conditions of use. Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.
- Skin** : No special protective clothing is required.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. Physical and chemical properties

<b>Physical state</b>	:	PL.1073	Liquid. [Suspension.]
		PL.1079	Liquid. [Suspension.]
		PL.1074	Liquid. [Suspension.]
		PL.1075	Liquid. [Suspension.]
		PL.1076	Liquid. [Suspension.]
		PL.1071	Liquid. [Suspension.]
		PL.1072	Liquid. [Suspension.]
		PL.1078	Liquid. [Suspension.]
		PL.1077	Liquid. [Suspension.]
<b>Flash point</b>	:	PL.1073	Not available.
		PL.1079	Not available.
		PL.1074	Not available.
		PL.1075	Not available.
		PL.1076	Not available.
		PL.1071	Not available.
		PL.1072	Not available.
		PL.1078	Not available.
		PL.1077	Not available.
<b>Burning time</b>	:	Not applicable.	
<b>Burning rate</b>	:	Not applicable.	
<b>Auto-ignition temperature</b>	:	Not available.	
<b>Flammable limits</b>	:	Not available.	
<b>Color</b>	:	PL.1073	Blue.
		PL.1079	Blue.
		PL.1074	Blue.
		PL.1075	Blue.
		PL.1076	Blue.
		PL.1071	Blue.
		PL.1072	Blue.
		PL.1078	Blue.
		PL.1077	Blue.
<b>Odor</b>	:	Not available.	
<b>Taste</b>	:	Not available.	
<b>Molecular weight</b>	:	Not applicable.	
<b>Molecular formula</b>	:	Not applicable.	
<b>pH</b>	:	PL.1073	7.3
		PL.1079	7.3
		PL.1074	7.3
		PL.1075	7.3
		PL.1076	7.3
		PL.1071	7.3
		PL.1072	7.3
		PL.1078	7.3
		PL.1077	7.3
<b>Boiling/condensation point</b>	:	Not available.	
<b>Melting/freezing point</b>	:	Not available.	
<b>Critical temperature</b>	:	Not available.	
<b>Relative density</b>	:	PL.1073	Not available.
		PL.1079	Not available.
		PL.1074	Not available.
		PL.1075	Not available.
		PL.1076	Not available.
		PL.1071	Not available.
		PL.1072	Not available.

## 9. Physical and chemical properties

PL.1077 Not available.

<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Volatility</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>SADT</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Ionicity (in water)</b>	: Not available.
<b>Dispersibility properties</b>	: Not available.
<b>Solubility</b>	: PL.1073 Not available. PL.1079 Not available. PL.1074 Not available. PL.1075 Not available. PL.1076 Not available. PL.1071 Not available. PL.1072 Not available. PL.1078 Not available. PL.1077 Not available.
<b>Physical/chemical properties comments</b>	: Not available.

## 10. Stability and reactivity

<b>Chemical stability</b>	: The product is stable.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products</b>	: No specific data.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

There is no data available.

### Chronic toxicity

There is no data available.

### Irritation/Corrosion

<b>Skin</b>	: There is no data available.
<b>Eyes</b>	: There is no data available.
<b>Respiratory</b>	: There is no data available.

### Sensitizer

<b>Skin</b>	: There is no data available.
<b>Respiratory</b>	: There is no data available.

### Carcinogenicity

There is no data available.

### Mutagenicity

There is no data available.

### Teratogenicity

## 11. Toxicological information

There is no data available.

### Reproductive toxicity

There is no data available.

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	Not regulated.	-	-	-		-
<b>TDG Classification</b>	Not regulated.	-	-	-		-
<b>IMDG Class</b>	Not regulated.	-	-	-		-
<b>IATA-DGR Class</b>	Not regulated.	-	-	-		-

PG\* : Packing group

Exemption to the above classification may apply.

**AERG** : Not applicable.

## 15. Regulatory information

### United States

**HCS Classification** :

PL.1073	Not regulated.
PL.1079	Not regulated.
PL.1074	Not regulated.
PL.1075	Not regulated.
PL.1076	Not regulated.
PL.1071	Not regulated.
PL.1072	Not regulated.
PL.1078	Not regulated.
PL.1077	Not regulated.

**U.S. Federal regulations** : **TSCA 8(a) IUR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.

## 15. Regulatory information

**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:** No products were found.  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** No products were found.

**Clean Water Act (CWA) 311:** Sodium phosphate, dibasic

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

**California Prop. 65**  
 No products were found.

### Canada

**WHMIS (Canada)** :

PL.1073	Not controlled under WHMIS (Canada).
PL.1079	Not controlled under WHMIS (Canada).
PL.1074	Not controlled under WHMIS (Canada).
PL.1075	Not controlled under WHMIS (Canada).
PL.1076	Not controlled under WHMIS (Canada).
PL.1071	Not controlled under WHMIS (Canada).
PL.1072	Not controlled under WHMIS (Canada).
PL.1078	Not controlled under WHMIS (Canada).
PL.1077	Not controlled under WHMIS (Canada).

### Canadian lists

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

**International lists** :

- Australia inventory (AICS):** All components are listed or exempted.
- China inventory (IECSC):** All components are listed or exempted.
- Japan inventory:** Not determined.
- Korea inventory:** All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
- Philippines inventory (PICCS):** All components are listed or exempted.



## 16. Other information

**Label requirements** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**Hazardous Material Information System (U.S.A.)** : **Health** : 0 **Flammability** : 0 **Physical hazards** : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** : **Health** : 0 **Flammability** : 0 **Instability** : 0

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

**Date of issue** : 07/15/2012

**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.