

## Material Safety Data Sheet

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**1. Identification of substance**

Trade name:	Stock number:
<i>PROTrack</i> <sup>TM</sup> Samarium	PL-00A01
<i>PROTrack</i> <sup>TM</sup> Lutetium	PL-00E01
<i>PROTrack</i> <sup>TM</sup> Europium NAA	PL-00K01
<i>PROTrack</i> <sup>TM</sup> Europium TRF	PL-00K02
<i>PROTrack</i> <sup>TM</sup> Holmium	PL-00L01
<i>PROTrack</i> <sup>TM</sup> Terbium TRF	PL-00N02
<i>PROTrack</i> <sup>TM</sup> Gadolinium	PL-00P01

Manufacturer/supplier:  
BioPAL  
80 Webster Street  
Worcester, MA 01603  
Emergency phone: 508-770-1190

**2. Composition****Reagents. Store all reagents at 4°C.****Reagent 1.**

PL-00A01, PL-00E01, PL-00L01, PL-00P01	Proprietary chelate	(7.3 x 10 <sup>-6</sup> mol)	~5 mg
PL-00K01 Reagent NAA.	Proprietary chelate	(7.3 x 10 <sup>-6</sup> mol)	~5 mg
PL-00K02 Reagent TRF	Proprietary chelate	(7.3 x 10 <sup>-6</sup> mol)	~1 mg
PL-00N02 Reagent TRF	Proprietary chelate	(7.3 x 10 <sup>-6</sup> mol)	~1 mg

**Reagent 2.** Reconstitution solution (2 ml) 2.04 ml 1 M sodium acetate and 0.112 ml  
1 M sodium hydroxide

**Reagent 3.**

PL-00A01	1 M SmCl <sub>3</sub> (0.2 ml)
PL-00E01	1 M LuCl <sub>3</sub> (0.2 ml)
PL-00K01	1 M EuCl <sub>3</sub> (0.2 ml)
PL-00K02	1 M EuCl <sub>3</sub> (0.2 ml)
PL-00L01	1 M HoCl <sub>3</sub> (0.2 ml)
PL-00N02	1 M TbCl <sub>3</sub> (0.2 ml)
PL-00P01	1 M GdCl <sub>3</sub> (0.2 ml)

**Reagent 4.** 0.2 M carbonate buffer pH 8.9 (10 ml)

**R-1001-10.** Time Resolved Developing Solution, a component of PL-00K02, PL-00N02

**3. Hazard identification**

Irritant, potential neurotoxin and carcinogen

**4. First aid measures**

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

**5. Fire fighting measures**

Extinguishing Media: Carbon dioxide or dry chemical powder

**6. Accidental release measures**

Procedure to be followed in case of leak or spill: Clean area wearing rubber gloves. Blot liquids with paper towel and sweep up broken glass, place in a bag and hold for waste disposal. Avoid contact with substance. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**7. Handling and storage**

Do not breathe dust or aerosol. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed. Store at -20°C.

**8. Exposure controls**

Engineering controls: Safety shower and eye bath.

Personal Protective equipment: Wear chemical resistant gloves, safety goggles, other protective clothing.

General Hygiene measures: Wash contaminated clothing before reuse. Wash thoroughly after handling.

**9. Physical Chemical Properties**

Reagent	Appearance	Form
Reagent 1	White solid	Crystalline
Reagent 2	Colorless solution	Aqueous liquid
Reagent 3	Colorless solution	Aqueous liquid
Reagent 4	Colorless solution	Aqueous liquid

**10. Stability and reactivity**

Stability: Materials to avoid include strong oxidizing agents, strong acids, strong bases, and organic solvents

**11. Toxicological information**

The toxicological properties of this material have not been established.

**12. Ecological information**

Nonbiodegradable.

**13. Disposal considerations**

Dispose in a chemical landfill. Observe all federal state, and local environmental regulations.

**14. Transport information:**

This substance is considered to be non-hazardous for transport and for air transport.

**15. Regulatory information**

US Classification and label text

Indication of danger: Irritant

Safety statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing

**16. Other information**

This material is sold for research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. BioPAL shall not be held liable for any damage resulting from handling or from contact with the above product. Copyright 2006 BioPAL. License granted to make unlimited paper copies for internal use only.