

**MATERIAL SAFETY DATA SHEET****Section 1 - PRODUCT AND MANUFACTURER IDENTIFICATION**

PRODUCT GROUP: IRMA Kits  
PRODUCT IDENTITY: Rat Osteocalcin  
PART NUMBER: 50-1500  
MANUFACTURER ADDRESS: Immutopics, Inc.  
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San Clemente, CA 92673  
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**Telephone Number in Case of Emergency: (800)681-6665 (USA & Canada)**

**Section 2 - COMPOSITION AND INGREDIENT INFORMATION**

Hazardous Substances in the Preparation:

Chemical	CAS#	Designation	% w/w
<sup>125</sup> I (sodium iodide)	14158-31-7	Radioactive, non-volatile, bound to protein	< 10 uCi; (370kBq)/vial
Sodium Azide (NaN <sub>3</sub> )	26628-22-8	Toxin	≤ 1.5%

**Section 3 - HAZARDS IDENTIFICATION**

Biochemicals:

All animal serum products used in kit components are derived from animals of US origin and processed in USDA licensed facilities.

Potential Chemical Hazard:

Iodine 125 is a radioactive tracer element with a 60 day half-life. Emits gamma rays.

Some of the reagents in this kit contain sodium azide. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide buildup (Manual Guide-Safety Management No. CDC-22, Center for Disease Control, Atlanta, Georgia, April 30, 1976).

**Section 4 - FIRST AID MEASURES**

Skin Contact: Remove contaminated clothing and thoroughly wash the exposed skin area with soap and water. If warranted, seek medical attention.

Eye Contact: Flush with copious amounts of water for at least 15 minutes. Seek medical attention.

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Inhalation: Move to fresh air; give oxygen if breathing becomes difficult. Seek medical attention.  
Ingestion: Provided the person is conscious flush mouth with copious amounts of water. Do not swallow rinse water. Seek medical attention.

## Section 5 - FIRE AND EXPLOSION MEASURES

Suitable Extinguishing Media: Chemical or water fire extinguisher  
Extinguishing Media Not to be Used: None known.  
Special Fire Fighting Procedures: None known.  
Unusual Fire and Explosion Hazards: None known.

## Section 6 - ACCIDENTAL SPILL MEASURES

Body Precautions: Wear respirator, safety goggles, gloves, impermeable shoe covers and laboratory coat.  
Environmental Precautions: Contain the spill to the smallest area possible.  
Cleaning Measures: Take care not to contaminate body. Any radioactive spill should be taken care of immediately by neutralizing with an alkaline detergent and absorbing with disposable towels in accordance with established procedures. All radioactive materials must be disposed of in accordance with the prevailing regulations and guidelines of the agencies holding jurisdiction over the laboratory.

## Section 7 - HANDLING AND STORAGE

Handling: Wear suitable personal protective equipment. Take care not to splash, spill or splatter any of the components.  
Storage: Store the kit and/or components at 2 - 8° C upon receipt. Refer to kit insert for use and subsequent storage.

## Section 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Hand Protection: Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves. Change gloves when they become contaminated.  
Eye Protection: Wear safety glasses or goggles.  
Body Protection: Wear laboratory coat.  
Respiratory Protection: Wear government approved respirator.  
Other: Avoid hand/mouth contact. Wash hands as soon as possible after handling reagents or specimens.

## Section 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical State: Liquid except for Standards (6 vials) and Controls (2 vials) which are lyophilized and the antibody coated beads.  
pH: 5.5 - 7.4 for all components  
Boiling Point: Not applicable.  
Melting Point: Not applicable.  
Flash Point: Not applicable.

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Flammability: Not Flammable.  
Vapor Pressure: Not applicable.  
Water Solubility: 100% soluble.

## Section 10 - STABILITY AND REACTIVITY

Stability: Stable under storage conditions described in the package insert.  
Conditions to Avoid: None known.  
Materials to Avoid: None known.  
Hazardous Decomposition Products: None known.

## Section 11 - TOXICOLOGICAL INFORMATION

Effects of Hazardous Substances at the Concentrations Present in the Preparation:

Toxic Effects: None known.  
Harmful Effects: None known.  
Sensitizing Effects: None known.  
Carcinogenic/Mutagenic/Teratogenic Effects: Contains a radionuclide known to the State of California (Proposition 65) to cause cancer and birth defects or other reproductive harm.

## Section 12 - ECOLOGICAL INFORMATION

None known.

## Section 13 - DISPOSAL CONSIDERATIONS

Disposal of Preparation: Dispose according to current regional and national regulations.  
Contaminated Containers: Dispose according to current regulations.

## Section 14 - TRANSPORT INFORMATION

Dept. of Transportation (DOT): Not restricted. Radioactive Material, limited quantity, n.o.s.  
Road/Railway Haulage ADR/RID: Not restricted.  
Sea Freight IMO (IMDG): Not restricted.  
Air Freight IATA (ICAO): Not restricted.  
UN Number: 2910 Radioactive Material

## Section 15 - OTHER REGULATORY INFORMATION

Pursuant to U.S. OSHA regulations and the EEC Directive Number 88/379, the only hazardous ingredients associated with this product are those listed in Section 2 above.

## Section 16 - OTHER INFORMATION

Recommended Use: For Research Use Only. Not for use on or in humans and animals.

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