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MATERIAL SAFETY DATA SHEET

MSDS No. 043

PRODUCT

Kit: IMMUCHEM™ INSULIN - CT RIA KIT (¹²⁵I)

Catalog Number: 07-260102

COMPONENTS AND HAZARDOUS INGREDIENTS

<u>Components</u>	<u>Catalog No.</u>	<u>Radioisotope</u>	<u>Sodium Azide</u>	<u>Other</u>
Insulin Tracer	07-260121	¹²⁵ I	0.10%	-----
Insulin Tubes	07-260110	-----	-----	-----
Insulin Standards	07-260130	-----	0.10%	-----
Insulin Buffer	07-260162	-----	0.10%	-----

HAZARDOUS INGREDIENTS

¹²⁵I Radioactive tracer - less than 10 µCi/vial. (See health hazard data on page two)
Half life = 60 days. Emits gamma rays.

Sodium Azide CAS# 26628-22-8 (See fire hazard and explosion information below)

PHYSICAL DATA

Not Applicable

FIRE HAZARD AND EXPLOSION INFORMATION

These reagents contain sodium azide. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. If discarded into the sink, flush with a large volume of water to prevent azide buildup.

HEALTH HAZARD DATA

Please observe the following precautions when handling ¹²⁵I:

This radioactive material may be received, acquired, possessed and used only by physicians, clinical labs, or hospitals, and is intended for in-vitro clinical or laboratory tests not involving internal or external administration of the materials. Thus, the permission, use and transfer of the radiation herein are subject to the regulations of, and with the general license from, the U.S., N.R.C. or the State with which the N.R.C. has entered into agreement for the exercise of the regulatory authority. Immediately upon receipt at this kit, check for breakage and verify the contents as per the package list. Should there be breakage or questions regarding this kit's contents, please immediately notify your supplier by telephone. Kit reagents should be stored and used only at clean, designated work stations of the laboratory. Although exposure to radiation from the small amount of radioactive material supplied is negligible, it is good practice to designate a storage area at least 10 feet from any work station. Furthermore, persons under the age of 18 should not be permitted to handle radioactive material or enter a work area where it is present. The pipetting of radioactive material by mouth should not be permitted. Smoking, eating, or drinking while performing tests involving radioactive material should be prohibited. Lastly, persons handling radioactive materials should wash their hands immediately after handling and prior to leaving the laboratory.

Please observe the following precautions when handling this kit:

Appropriate handling of toxic chemicals in laboratories is essential. Periodic review of the safeguards must be ensured. Appropriate emergency procedures and equipment should be in place and their use should be reviewed. Laboratory technicians should be aware of the potential toxicity and rapidity of action, and signs and symptoms of poisoning with the compound with which they deal.

EMERGENCY AND FIRST AID PROCEDURES

Tracer Exposure:

- Ingestion: **Get medical attention Immediately.**
- Eyes: Immediately flush eyes with water.
- Skin: Wash skin with soap and plenty of water.

SPILL PROCEDURES

Should there be spillage of any radioactive material, the following clean-up procedure is recommended: While wearing gloves, blot the spillage with a paper towel. This contaminated towel should be disposed as radioactive waste. Wash the affected area with a detergent, then rinse gloves with water, tear them up to prevent further use and discard as ordinary waste.

STORAGE AND DISPOSAL

- Storage:** Store all components at 2-8°C.
- Disposal:** All radioactive materials must be disposed of in accordance with the prevailing regulations and guidelines of the agencies holding jurisdiction over the laboratory. Uncontaminated containers may be discarded into non-radioactive waste providing that radioactive labels and labeling are removed. All used or radioactive tubes must be placed in the radioactive waste.

PROTECTIVE EQUIPMENT

- Ventilation:** Provide local exhaust or process enclosure ventilation to meet the published exposure limits.
- Clothing and Gloves:** Wear appropriate protective clothing and equipment to prevent repeated or prolonged contact with this substance. Protective clothing should meet the requirements for personal protective equipment in 29 CFR 1910.1028(H). This clothing should include a labcoat and protective gloves.

The information provided in this material safety data sheet is believed, but not warranted to be accurate. The user of the product should determine the suitability of this information for the intended use of the product. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information.

Creation Date: February 1992
Revision No.: 3
Revision Date: 12 April 1995