

MATERIAL SAFETY DATA SHEET

(Effective Date: April 2003)

INDIUM In-111 OXYQUINOLINE

1. PRODUCT IDENTIFICATION

Product Code: IN.15PA

Chemical Formula: (C₉H₆NO)₃ In-111

Formula CAS No.: Not applicable.

Molecular Weight: Not applicable to mixtures.

Hazardous Ingredients: CAS# (7440-74-6) Radioactive Indium

2. PHYSICAL DATA

Appearance: Clear liquid.

Radioactivity: 1 mCi at time of calibration.

Concentration: 1 mCi/mL.

Specific Activity: >50 mCi/μg at reference date.

Odor: Odorless.

Solubility: Not applicable.

Half-Life: 2.8 days.

Boiling Point: 100 °C

Melting Point: 0 °C

Vapor Density (Air=1): No information found.

Evaporation Rate: No information found.

Vapor Pressure (mm Hg): No information found.

3. FIRE AND EXPLOSION HAZARD DATA

Fire: Substance is non-flammable.

Explosion: Not considered an explosion hazard.

Fire Extinguishing Media: Use water spray, dry chemical, CO₂ or foam as appropriate for the burning material.

Special Information: In the event of a fire, wear full protective clothing and a NIOSH approved self-contained breathing apparatus.

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4. HEALTH HAZARD DATA

A. Effects of Overexposure

Inhalation: May cause asymptomatic uptake in tissues.

Eye Contact: May cause mechanical irritant.

Ingestion: May cause asymptomatic uptake in tissues.

Skin Contact: Not considered an acute health hazard.

Chronic Exposure: Data on biological effects of Ionizing Radiation are based on exposures much higher than those permitted occupationally. No effects are expected from exposures received as a result of normal use.

Aggravation of Pre-existing Conditions: No information found.

B. First Aid Procedures

Inhalation: Move to fresh air and notify physician or Radiation Safety Officer immediately.

Ingestion: Notify Radiation Safety Officer immediately. Assess and document the amount of activity ingested.

Skin Exposure: Wash thoroughly with soap and water or other approved decontamination media. Notify Radiation Safety Officer immediately.

Eye Exposure: Rinse eyes thoroughly with water for a minimum of 15 minutes. Notify Radiation Safety Officer immediately.

C. Toxicity Data

Scientific studies have indicated that large exposures to ionizing radiation can result in an increased probability of long-term biological effects such as cancer and birth defects. Although these effects have been difficult to demonstrate at low levels of exposure, efforts should be made to keep exposures as low as reasonably achievable.

5. REACTIVITY DATA

Stability: Material is stable.

Hazardous Decomposition Products: Thermal decomposition may produce radioactive Indium fumes.

Hazardous Polymerization: Will not occur.

Incompatibilities: No information found.

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6. SPILL OR LEAK PROCEDURES

Radiopharmaceuticals must be handled with care and appropriate safety measures should be used to minimize exposure to personnel. Radiopharmaceuticals should be used only by physicians who are qualified by training and experience in safe use and handling of radionuclides, and where experience and training have been approved by the appropriate regulatory agency authorized to license the use of radiation.

7. OCCUPATIONAL PROTECTION INFORMATION

Airborne Exposure Limits: Occupational: 3.0×10^{-6} $\mu\text{Ci/cc}$; Nonoccupational: 9.0×10^{-9} $\mu\text{Ci/cc}$

Personal Respirators: (NIOSH Approved): Not required under normal conditions.

Skin Protection: Disposable rubber, plastic or latex gloves; lab coat.

Ventilation System: Use local exhaust.

Eye Protection: Safety goggles or safety glasses.

Precautions: Practice good housekeeping and personal hygiene to preclude the possibility of contaminating work surfaces, equipment and skin. Avoid inhaling dust or mist; do not pipette solutions by mouth. No smoking, eating, or drinking where radioactive materials are handled or stored.

8. SPECIAL PRECAUTIONS

Any cleanup of spilled radioactive material should be conducted under the direction of site radiation safety personnel. Any packages received with leaking internal components should be reported to Nycomed Amersham Imaging Technical Services at 1-800-832-4633. Any packages delivered in a damaged condition should be reported to Nycomed Amersham Imaging Environmental Regulatory Affairs at (847) 398-8400.

CALIFORNIA PROPOSITION 65 INFORMATION

The State of California requires that customers and employees are provided with warnings about reproductive and carcinogenic hazards associated with substances sold in California. Radioactive materials are suspected to cause reproductive toxicity. Under Proposition 65, the following warning applies:

WARNING: This product contains a substance known to the State of California to cause reproductive toxicity.

MATERIAL SAFETY DATA SHEET STANDARD FORM DISCLAIMER

The above information is based upon data available to Amersham Health and is believed to be correct, but does not intend to be all inclusive and shall be used only as a guide. Since the information contained herein may be applied under conditions beyond the control of Amersham Health, no responsibility is assumed for the results of its use.

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