

1. Product and company identification

Product names and nuclide:

Chromium 51 solution,	Cobalt 57 solid,	Gallium 67 solution,	Indium 111 solution,
Iodine 123 solid, solution,	Iodine 131 solid, solution	Iodine 125 solid, solution,	Thallium 201 solution,
Selenium 75 solid,	Strontium 89 solution,	Molybdenum 99 solid	Fluorine 18 solution

And any other radioactive material packed and transported at ambient temperature.

Synonyms: None

Application: radioactive pharmaceuticals for administration into humans for diagnosis and therapy

Supplier: GE Healthcare Limited, The Grove Centre, White Lion Road, Amersham, Bucks, UK.

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2. Composition/information on ingredients

Composition: Radioactive liquids and solids contained in primary containers in unleaded or lead pots in final outer packaging. All above radionuclides detectable on normal radiation instruments. Readily soluble in water.

Contents: Radioactive Material with no secondary hazards

CAS No.: Not applicable

3. Hazards identification

Emergency overview: Radioactive material packed in excepted or Type A transport packages, up to category III Yellow labels and TI of up to 10.0.

Hazard classification: Class 7, radioactive material

4. First-aid measures (released radioactive material)

Skin contact: Wash thoroughly with soap and warm water, notify a Radiation Protection Expert.

Inhalation: No treatment except by a physician. Notify a Radiation Protection Expert, particularly if radioiodine is involved.

Eyes: Rinse eyes with water, notify a Radiation Protection Expert.

Ingestion: No treatment except by a physician, notify a Radiation Protection Expert.

5. Fire-fighting measures

Flammability: Not applicable

Fire extinguishing Media: Preferably dry powder or foam

Fire fighting procedure: Contain any runoff liquid, do not touch any damaged packages, if possible, remove any undamaged packages from the fire. Fire fighter's protective clothing provides adequate respiratory protection.

Decomposition and Explosion hazard: Not applicable

Other: The clean up after a fire should be undertaken under the direction of a Radiation Protection Expert. Notify relevant radiation authority.

6. Accidental release measures

General: Call emergency response number on shipping paper. If the package(s) are believed to be breached, barrier at 7.5µSv/h or if no radiation monitor available at 45 metres. Keep unauthorized personnel away. Notify relevant radiation authority.

Personal protection: Avoid direct contact and take other measures as directed by a Radiation Protection Expert or authority.

Clean up procedures: Take measures as directed by a Radiation Protection Expert or authority.

Environmental precaution: Try to contain runoff liquid, sheet over to reduce the spread of contamination

Other: As an immediate precautionary measure for release of therapeutic I-131 solution, stay upwind and keep clear at least 100 metres down wind. Clean up of any radionuclides above should be undertaken under the direction of a Radiation Protection Expert or authority.

7. Handling and storage

Handling precautions: Only handle unopened, undamaged packages; handling should be kept to a minimum. As an immediate precaution for any damaged packages must not be touched, and personnel must be kept at least 45 metres away and the advice of a radiation protection expert sought.

Storage conditions: Avoid storage in places occupied by people and from undeveloped photographic film. Store at 2 to 25°C. Storage areas must be secure when packages are in the store/warehouse.

8. Toxicological information

Undamaged packages pose minimal hazard. Contents of damaged packages can cause higher exposure to radiation. Hazard will vary from low to moderate depending on the quantity of radioactivity. Limited exposure to these materials will not cause immediate health effects. Scientific studies have indicated that exposure to ionising 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 exposure as low as reasonably achievable.

9. Transport information

ADR Classification: Class 7

Transport conditions: Transport at ambient temperature in original transport packaging, ensure packages are not subject to prolonged exposure to sunlight. Ensure packages are loaded as per the loading instructions in the local rules. Transport at ambient temperature.

10. Other information

Other: Personnel issued with dosimeters (TLD, Film badge or electronic), must wear them when handling radioactive material.

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