



EMERGENCY RESPONSE INFORMATION

Humboldt Scientific, Inc. produces and ships material testing equipment, which may contain small amounts of radioactive material. These materials are "Special Form" as defined by the US Department of Transportation, Hazardous Materials Branch, and IATA regulations.

The radioactive materials may be cesium-137 and/or americium-241. They are securely installed in the equipment and are shielded to maintain a Transport Index of 0.2 or less. The material description is "RQ:Radioactive Material, Type A Package, Special Form, 7, UN3332". The equipment and transport case are tested to US DOT 7 A Type A specifications as described in CFR Title 49 part 173.465.

IMMEDIATE HAZARDS TO HEALTH

The material represents no immediate hazard to health unless ingested. Long term exposure to the unshielded sources (outside of the equipment shielding) should be limited to less than 350 hours at a distance of one meter. The dose rate at one meter is approximately 3.5 mrem/h.

If the shielding is intact the dose rate at one meter is 0.2 mrem/h and exposure time should be limited to less than 6000 hours.

The above exposure times are based on 1/4 of the maximum dose for radiation workers but, as with any use of a source of ionizing radiation, the exposure times should be limited to the minimum necessary to evaluate damage.

RISKS OF FIRE OR EXPLOSION

Temperatures above 600°C may melt the aluminum holding the shielding in place and extended temperatures above 1350°C may melt the encapsulation materials. If the latter condition has existed, precautions to prevent inhalation, skin contamination or ingestion must be taken. If burning of the transit case and melting of the aluminum parts is observed this condition may exist.

IMMEDIATE PRECAUTIONS TO BE TAKEN

Secure an area of approximately a 15 foot (5 meters) radius surrounding the site containing the instrument or debris and limit access to trained personnel until an evaluation of the risk can be determined.

Do not move or remove the damaged instrument or debris until it is determined that no contamination is present in the vicinity. Appropriate emergency response individuals/ organizations such as the licensee's Radiation Safety Officer or contracted emergency response services should be contacted for assistance immediately. The appropriate State regulatory agencies or NRC should also be notified as soon as possible.

ACCIDENT HISTORY

While these instruments have been destroyed by accidents and fire, there have been no known instances where contamination and damage to health has occurred. Humboldt Scientific, Inc. is available at all times to offer assistance in the event of transportation accidents

EMERGENCY RESPONSE PHONE: 1.800.535.5053
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