Transportation Emergency Preparedness Program Emergency Responder Radioactive Material Quick Reference Sheet

Initial Response/Scene Size Up

From a distance, try to identify the following:

- Spills, leaks, or fire
- Victims needing rescue
- Type of vehicle and containers involved
- Placards, labels, or package markings
- Container/package damage
- Any person knowledgeable of the scene
- Location of shipping papers
- Proper protective clothing needed for entry

For radioactive materials, establish an initial isolation zone of 75 feet in all directions. Priorities for rescue, life-saving, first aid, fire control and other hazards are higher than the priority for measuring radiation levels. Attempt to detain uninjured personnel who may be contaminated until they can be surveyed by local Radiation Authority.

Vehicle Placards

Standard Placard



Vehicle placarding is required when transporting:

- Packages with Yellow-III labels
- Exclusive Use LSA/SCO shipments
- Highway Route Controlled Quantity Shipments

Highway Route Controlled Quantity (HRCQ) Placard



HRCQ is a high activity shipment transported in a Type B package. The package will always have a Yellow-Ill label regardless of radiation level. HRCQ shipments by highway will require the standard placard on a white square background with a black border as shown at left.

Package Labels

Radioactive White-I

Expect up to 0.5 mrem/hr at surface of package

No Transport Index associated with this label



MANUACTINE 1

Radioactive Yellow-II

Expect > 0.5 mrem/hr up to 50 mrem/hr at surface of package

Maximum Transport Index is 1 or 1 mrem/hr at 1 meter



Radioactive Yellow III

Expect > 50 mrem/hr up to 200 mrem/hr* at surface of package

Maximum Transport Index is 10 or 10 mrem/hr at 1 meter*



Fissile Label

For packages containing fissile material, this label will appear with one of the three labels shown above. Criticality Safety Index on label is used by shipper to limit the number of packages on a conveyance



EMPTY Label

For packages that previously contained radioactive material. Package may still contain internal contamination

* May read up to 1,000 meets for at package surface and up to 10 meets for at 2 meters (6.6 ket) if package is transported in a closed transport vehicle under exchabre use provisions. Suppling papers will denote "Exclusive Use."

Shipping Paper Information

Look for the following information on shipping papers for radioactive material:

- Emergency contact telephone number
- Proper Shipping Name and UN ID
- Name of radionuclides (e.g., Cs-137)
- Radioactivity level per package in MBq. GBq, etc. (will be listed as "activity")
- Category of label applied (i.e., White-I, Yellow-II, Yellow-III)
- Transport Index (for Yellow-II and III labels)
- The letters "RQ" if material is a Reportable Quantity of hazardous material
- Package Type (e.g., Type A, Type B, etc.)
- Physical & chemical form of material (if not special form)
- "Fissile Excepted" or Criticality Safety Index (for fissile materials only)
- "Exclusive Use" if shipment is being made under exclusive use provisions
- Highway Route Controlled Quantity or "HRCQ" (if shipment is HRCQ)

Common Prefixes

The activity level shown on shipping papers and on the radioactive label is required to be listed in becquered. The becquered (Eq.) is a very small amount of activity. To account for this, prefuses are often used to change the size of the unit. For example 2.2 MEq denotes 2.2 million Eq or 2.2 million disintegrations per second. Many of the commonly used prefixes are shown in the table below.

Symbol	Prefix Value
k	kilo - 1 thousand
M	Mega - 1 million
G	Giga - I billion
T	Tera - 1 trillion
P	Peta - I quadrillion

First Responder Reference Guide

Michal Rosen-Zvi

First Responder Reference Guide:

The First Responder's Field Guide to Hazmat and Terrorism Emergency Response, 2006-09 **CSI** for the First **Responder** Jan LeMay, 2017-09-11 Critical to the successful apprehension and prosecution of criminals the job of collecting evidence at a crime scene requires knowledge technical skills patience and perseverance Often this task falls on just one individual the officer on routine patrol duties who is the first to arrive at the scene of a crime Written by an expert with seventeen years experience in law enforcement CSI for the First Responder is a succinct guide on how to secure search identify document collect and preserve physical evidence essential for solving a case and making the evidence stand up in court A practical hands on resource to all aspects of crime scene investigation this book covers The approach to the scene Securing the scene Searching for and identifying evidence Documenting the evidence through notes and reports Photography and videotape Sketches and diagrams Collection and preservation The investigative value of different types of evidence Testimony and presenting evidence in court Enhanced with real life examples the book presents case studies implementing the described techniques The case studies include examples of successful scene security and documentation as well as cautionary tales of erroneous practices with lessons learned Also included with this book is a Quick Reference Guide on the downloadable resources which can be downloaded to patrol car laptops or printed and kept in a pocket for easy access Spanning the entire scope of a case from initial discovery of evidence to courtroom presentation this one stop resource enables law enforcement to nail down the evidence they need to prove the crime and get the conviction Hope out of Darkness: A Guide to First Responder Mental Wellness Dena Ali, 2024-11-11 In Reference Book ,1990 Hope Out of Darkness A Guide to First Responder Mental Wellness Dena Ali battalion chief with the Raleigh NC Fire Department and sought after speaker delivers a comprehensive exploration of the mental health issues facing first responders Combining powerful personal experience with intensively researched insights and data from subject matter experts Ali dispels mental health myths outlines a range of resources for support and treatment and skillfully employs both her vulnerability and wisdom to offer hope to first responders in need First Responder's Guide to Agricultural Chemical Accidents Charles R. Foden, Jack L. Weddell, 2018-02-06 First Responder's Guide to Agricultural Chemical Accidents provides emergency safety and health information for 452 toxic and hazardous products These products frequently used by pest exterminators and farmers include those insecticides pesticides rodenticides herbicides and fertilizers commonly transported on highways and by rail carriers The book lists products alphabetically and includes the manufacturer and telephone number chemical identification physical properties hazard ratings neutralizing agents when known fire fighting agents special warnings evacuation distances protective clothing health hazard information and emergency first aid for exposure This important information allows any First Responder to establish a safe plan of action without having to reference the library of chemical books normally carried by a Hazardous Materials Emergency Response Team HERT First Responder's Guide to

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and Human Services, 2016-08-12 PHMSA s 2016 Emergency Response Guidebook provides first responders with a go to manual to help deal with hazmat transportation accidents during the critical first 30 minutes **Emergency Response** Handbook for Chemical and Biological Agents and Weapons John R. Cashman, 2008-03-31 Updated to reflect the numerous advances that have evolved since the September 11 terrorist attacks Emergency Response Handbook for Chemical and Biological Agents and Weapons Second Edition maintains its reputation as a comprehensive training manual for emergency responders to incidents involving nuclear biological and chemical materials **Emergency Response Guidebook** U.S. Department of Transportation, 2018-01-02 If you came upon an overturned truck on the highway that was leaking would you be able to identify if it was hazardous and know what steps to take Does the identification number 60 indicate a toxic substance or a flammable solid in the molten state at an elevated temperature Does the identification number 1035 indicate ethane or butane What is the difference between natural gas transmission pipelines and natural gas distribution pipelines Questions like these and more are answered in the 2016 update of the Emergency Response Guidebook Learn how to identify symbols for vehicles carrying toxic flammable explosive radioactive or otherwise harmful substances and how to respond once an incident involving those substances has been identified Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them Keeping this guide around at all times will ensure that if you were to come upon a transportation situation involving hazardous substances or dangerous goods you will be able to help keep others and yourself out of danger With color coded pages for quick and easy reference this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials

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