








































# HAZARDOUS MATERIAL IDENTIFICATION GUIDE

TYPE OF HAZARD		DEGREE		HAZARD RATING INDEX
	 <b>HEALTH</b>	<b>4</b>	<b>EXTREME</b>	<b>HEALTH</b>  4 - <b>EXTREME</b> - Materials that on very short exposure could cause death or major medical injury. 3 - <b>SERIOUS</b> - Materials that on short exposure could cause serious temporary or permanent injury. 2 - <b>MODERATE</b> - Materials that on contact or continued but not chronic exposure could cause temporary or permanent or possible medical injury. 1 - <b>SLIGHT</b> - Materials that on exposure could cause irritation but no exposure other than that of ordinary combustible material. 0 - <b>MINIMAL</b> - Materials that on exposure would cause irritation but only minor medical injury.
	 <b>FLAMMABILITY</b>	<b>3</b>	<b>SERIOUS</b>	
	 <b>INSTABILITY</b>	<b>2</b>	<b>MODERATE</b>	
	 <b>PROTECTIVE EQUIPMENT</b>	<b>1</b>	<b>SLIGHT</b>	
		<b>0</b>	<b>MINIMAL</b>	
PROTECTIVE EQUIPMENT INDEX				
<b>A</b>		<b>H</b>	   	<b>FLAMMABILITY</b>  4 - <b>EXTREME</b> - Materials that will readily or spontaneously ignite at atmospheric pressure and normal ambient temperatures, or that are readily dispersed in air and that will burn readily. 3 - <b>SERIOUS</b> - Liquids and solids that can be ignited under almost all ambient temperature conditions. 2 - <b>MODERATE</b> - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. 1 - <b>SLIGHT</b> - Materials that must be preheated before ignition can occur. 0 - <b>MINIMAL</b> - Materials that will not burn.
<b>B</b>	 	<b>I</b>	  	
<b>C</b>	  	<b>J</b>	   	
<b>D</b>	  	<b>K</b>	   	
<b>E</b>	  	<b>X</b>	Ask your supervisor for special handling instructions.	<b>INSTABILITY</b>  4 - <b>EXTREME</b> - Materials that in themselves are readily capable of detonation or of explosive decomposition or reaction at normal temperatures and pressures. 3 - <b>SERIOUS</b> - Materials that in themselves are capable of detonation or explosive decomposition or reaction but require a strong initiating source or which must be heated under confinement before initiation or which react explosively with water. 2 - <b>MODERATE</b> - Materials that readily undergo violent chemical change at elevated temperatures and pressures or which react violently with water or which may form explosive mixtures with water. 1 - <b>SLIGHT</b> - Materials that in themselves are normally stable, but which can become unstable at elevated temperatures and pressures. 0 - <b>MINIMAL</b> - Materials that in themselves are normally stable, even under the exposure conditions, and which are not reactive with water.
<b>F</b>	   			
<b>G</b>	  			

# Emergency Response Guide Generic Hazardous Materials

**U.S. Department of Transportation**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the U.S. Department of Transportation text.

## **Emergency Response Guide Generic Hazardous Materials:**

**Emergency Response Guidebook 2012** U. S. Department of Transportation, 2015-04-17 The ERG is primarily applicable for hazardous materials transported by highway and railway but also is applicable for materials transported by air or waterway as well as by pipeline It was first issued by the US Department of Transportation in 1973 but later became a joint publication of the Department of Transportation US DOT Transport Canada TC and the Secretariat of Communications and Transportation SCT of Mexico with collaboration with the Chemistry Information Center for Emergencies CIQUIME of Argentina The ERG is issued every 4 years with editions now being published in Spanish *Guía de Respuesta en Caso de Emergencia* In 1996 it was published as the North American Emergency Response Guidebook but by the next publication in 2000 North American was removed due to its use by several South American countries The ERG is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the materials involved in the incident and protecting themselves and the general public during the initial response phase of the incident and should only be used for the initial response phase about the first thirty minutes of an incident It is divided into six color coded sections white uncolored yellow blue orange green and a second white uncolored The ERG includes over 170 Guides found in the Orange Section that identify the primary hazards associated with the applicable general category of hazardous material and general guidance on how to respond to incidents involving that general category of hazardous material The primary purpose of ERG is to direct the emergency responders to the most appropriate of these guides based on the incident The ERG also provides guidance regarding recommended evacuation distances if applicable in the Green Section *North American Emergency Response Guidebook*, 1996 **Emergency Response Guidebook**, Emergency Response Guidebook U.S. Department of Transportation, 2013-06-03 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 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 Questions like these and more are answered in the Emergency Response Guidebook Learn how to identify symbols for and 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 **2000** **Emergency Response Guidebook** United States. Department of Transportation. Research and Special Programs

Administration,2000      **Emergency Response Guidebook (2000)** Barry Leonard,2000-06 Developed jointly by the governments of Canada the U S and Mexico for use by fire fighters police and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving dangerous goods It is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material s involved in the incident and protecting themselves and the general public during the initial response phase of the incident It is not intended to provide information on the physical or chemical properties of dangerous goods Comprehensive      *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      2012 Emergency Response Guidebook United States. Pipeline and Hazardous Materials Safety Administration,2012 NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced listprice The official Emergency Response Guidebook ERG is a guide for use by transporters firefighters police and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving a hazardous material It is used by first responders in 1 quickly identifying the specific or generic classification of the material s involved in the incident and 2 protecting themselves and the general public during this initial response phase of the incident The ERG is updated every three to four years to accommodate new products and technology

**Hazardous Materials Emergencies** John R. Cashman,2022-11-30 This book is mostly structured around first person interviews with nationally and locally recognized experts who have been in hazardous materials response for a number of years To aid networking the addresses and telephone numbers of all persons interviewed are listed at the end of each interview The central narrative theme of the book has been to detail the actual methods procedures techniques tactics and lessons learned of specific hazardous materials response teams HMRT drawn from a number of different categories The object is to have readers find a ready source to provide knowledge of what a teamed trained and equipped HMRT uses for methods tactics procedures tools vehicles instruments equipment strategies leak fire spill control prevention remedial actions decision making incidents containment or hazards This book answers many questions for emergency responders that they may need to know to stay alive      **2004 emergency response guidebook** United States. Department of

Transportation. Research and Special Programs Administration,2004      **2012 Emergency Response Guidebook: a Guidebook for First Responders During the Initial Phase of a Dangerous Goods/ Hazardous Materials**

**Transportation Incident** U.S. Department of Transportation,Transport Canada,Secretariat Transport & Communications,2013-05-14 The official Emergency Response Guidebook ERG is a guide for use by transporters firefighters police and other emergency services personnel who may be the first to arrive at the scene of a transportation incident

involving a hazardous material It is used by first responders in 1 quickly identifying the specific or generic classification of the material s involved in the incident and 2 protecting themselves and the general public during this initial response phase of the incident The ERG is updated every three to four years to accommodate new products and technology 2012 *Emergency Response Guidebook* U. S. Department Transportation, Pipeline and Safety Administration, 2013-06-11 The official Emergency Response Guidebook ERG is a guide for use by transporters firefighters police and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving a hazardous material It is used by first responders in 1 quickly identifying the specific or generic classification of the material s involved in the incident and 2 protecting themselves and the general public during this initial response phase of the incident The ERG is updated every three to four years to accommodate new products and technology 1993 *Emergency Response Guidebook* United States. Department of Transportation. Research and Special Programs Administration, 1994-06 *First Responders Handbook* Michael L. Madigan, 2017-09-13 The objective of this handbook is to make available in a quick reference form the information to enhance and support the response capabilities of firefighters emergency medical technicians hazardous materials response teams law enforcement officers bomb squads medical doctors and nurses emergency managers schools and others This handbook is dedicated and committed to disaster prevention preparedness readiness response mitigation and recovery efforts This is an ideal book for newcomers to the field and can be used for fast knowledge for application to any areas of response *Operating Safely in Hazardous Environments* Joseph A. Cocciardi, 2012-08-27 Designed To Meet The Many Training Certification Regulations Required Of Employees Working In hazardous environments this edition Has Been Revised To Reflect Updates In Technology Equipment And Regulations **Emergency Response Guidebook 2012** U.S. Department Of Transportation, Transport Canada, Secretariat Transport & Communications, 2012-10 Full color desktop reference edition The official Emergency Response Guidebook ERG is a guide for use by transporters firefighters police and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving a hazardous material It is used by first responders in 1 quickly identifying the specific or generic classification of the material s involved in the incident and 2 protecting themselves and the general public during this initial response phase of the incident The ERG is updated every three to four years to accommodate new products and technology **Hazardous Materials Incidents** Steven M. DeLisi, 2006 First responders who arrive on scene of a hazardous materials incident may be assigned to an engine ladder truck rescue or ambulance with very little sophisticated HAZMAT equipment Despite these limitations their actions during the initial response will often set the stage for the success or failure of the entire event Many incidents start out as minor routine events that suddenly escalate when something goes terribly wrong Perhaps first responders did not anticipate the involvement of hazardous materials in a response to a rear end collision involving two passenger vehicles an EMS call at a residence for difficulty breathing or a trash fire That is until it was too late First responders despite their best

intentions can quickly become part of any hazardous materials problem. The results can be first responders who are killed or seriously injured or those who suffer devastating illnesses years after exposure to a hazardous material. Even if you have hours of training on hazardous materials response, this book will provide every reader with practical advice based on the real life experiences of first responders. A one stop source on topics such as atmospheric monitors and class B foam. Steps to managing routine incidents to prevent them from becoming disasters. Limitations of federal hazardous materials regulations you need to know. Real world examples of first responders who won or lost the battle with hazardous materials.

**Emergency Response Guidebook** Canada. Transport Canada. Safety and Security, United States. Department of Transportation, Mexico. Secretariat of Transport and Communications, 2000. *2004 Emergency Response Guidebook*, 2004. The Emergency Response Guidebook (ERG) 2004 was developed jointly by the US Department of Transportation, Transport Canada and the Secretariat of Communications and Transportation of Mexico (SCT) for use by firefighters, police and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving a hazardous material. It is primarily a guide to aid first responders in 1) quickly identifying the specific or generic classification of the material involved in the incident and 2) protecting themselves and the general public during this initial response phase of the incident. Home page of source document on the Internet: [A Guide for Assessing Community Emergency Response Needs and Capabilities for Hazardous Materials Releases](#) Battelle Memorial Institute, 2011. This Guide presents comprehensive step by step guidance on assessing hazardous materials emergency response needs at state, regional and local levels, matching state, regional and local capabilities with potential emergencies involving different types of hazardous materials and assessing how quickly resources can be brought to bear in an emergency. The methodology described in the Guide is designed to be scalable, allowing the implementation results to be aggregated at the local level up through regional, state and national levels. Also, the Guide is designed to connect as many components as possible to already established standards, guidelines, regulations and laws so that the Guide will remain current as these underlying components are updated. In addition, the Guide discusses appropriate means for maintaining currency of the information over time. The Guide and accompanying spreadsheet tool on the attached CD-ROM which leads planners through the assessment process will be most useful for local jurisdictions that have limited resources and expertise in hazardous materials emergency response planning.

Publisher's description

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web rotation 2d settings in 2d specify an angle in degrees default 0 for the rotation to get several rotated objects enter a list of angles separated with commas or spaces or using the range function click the range button to define

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web jan 27 2015 just select the boundary of the cylinder as wall and specify the wall as moving then select rotating then put the rotating wall in rad/sec cite 3 recommendations top contributors to

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web this paper focuses on the effect of plates and a concentric cylinder used as counter electrodes on the turbulent flow of a



rotating cylinder electrode rce four plate six plate and concentric cylinder counter electrodes were simulated

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web apr 21 2022 the way i am describing the movement of the cylinder on the xy plane as  $u_x \sqrt{\omega^2 r^2 + u_y^2}$   $u_y \sqrt{\omega^2 r^2 + u_y^2}$   $u_z = 0$  where  $\omega$  is the rotating speed in frequency units  $1/s$  as  $u_x u_y$  where  $x y i$  i understand is applying the magnitude of the  $u$  vector at every point of the domain as the

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web rotating cylinder hull cells are an important experimental tool in electroplating and electrodeposition and are used for the measurement of nonuniform current distribution mass transport and throwing power of plating baths the model reproduces the results for a commercially available cell rotahull r as published in paper 1

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web nov 19 2021 the hollow cylinder lets call it a mold is used for centrifugal casting of steel where the liquid steel is pured on the inner side of the mould and solidifies the solidification is not uniform and the density distribution is not uniform thus the vibration arises

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web oct 20 2009 hi what about rotatating the source rather than the cylinder apart from the minus sign in the velocity it should be the same if i understand you you have a 2d model x y plane seen along the axis in z if your source is applied to the boundary you can delimit it with a boolean function for a certain angular width given an angular rotational

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web rotation angle specify the rotational angle about the axis in the rotation field when this angle is zero the default the second axis of the cylinder s local coordinate system is parallel to the xy plane coordinate system the coordinate system in which the position axis and rotation angles above are interpreted

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web the 3 d geometry of concentric rotating cylinder system where the inner cylinder is rotating and outer cylinder is

stationary was developed by using the comsol computational fluid dynamics cfd module for determination of the velocity and pressure profiles a typical meshed geometry is shown in figure 2 the model parameters are

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web a fluid dynamics analysis of the velocity and pressure fields that occur in the annular gap between two concentric cylinders with a stationary outer cylinder and a rotating inner cylinder is presented

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web when end effects are neglected an analytical solution to the equation of motion can be obtained for the fluid velocity and pressure profiles parameters that are varied include the radii of the inner and outer cylinders rotational speed of the inner cylinder and kinematic viscosity of the fluid