

"Training tools for an increasingly complex and dangerous job"



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About the HazChem Series

Each program in the HazChem Series focuses on a different chemical product or group of chemical products designed to provide training to persons who may be expected to respond to an emergency involving hazardous materials or who may work with these substances.

Each program discusses fundamental lessons about safe handling and emergency response procedures, including:

- Hazard properties of the product
- Occupancies where they are found
- Proper protective clothing
- Decontamination procedures
- Emergency medical treatment
- Safe response to leaks, spills and fires

Each program is created with the assistance of a technical committee with expertise in the specific product and in emergency response. Footage of actual incidents is combined with action-packed, realistic training sequences to get the viewer up close as fire fighters, police, emergency medics, and industry personnel carry out procedures to mitigate incidents.

HazChem programs have been the winners of over 20 awards for both filmmaking excellence and technical content.

"Introduction to Hazardous Chemicals"

Provides an overview of the properties of chemicals and tells how to deal safely with emergencies. Also discusses the physical properties of chemicals, explaining how these properties contribute to the hazardous

nature of the chemical. More than 20 reactions involving hazardous chemicals are portrayed, alerting the viewer to potential safety hazards. 29 min. 2005.

About "Anhydrous Ammonia"

"Anhydrous Ammonia" covers government required reporting and security requirements and the growing use of anhydrous ammonia in illegal drug labs. Also covers the danger of NH_3 in enclosed spaces and tells how to ventilate an enclosed space and monitor it for concentration before entering. It also discusses vapor control, standards for containers and size-up and priorities for incidents involving NH_3 . 33 min. 2008.

About "Benzene, Toluene & Xylene"

This program describes the symptoms of human exposure to aromatic hydrocarbons and warns about short and long term health effects. It also covers environmental concerns, particularly in regard to water supplies. The importance of air monitoring is discussed, as well as identifying hazardous materials, proper protective clothing for workers and emergency responders, monitoring cleanup operations, and decon. It also tells how spills typically occur and outlines procedures for avoiding accidents. 28 min. 2002.

About "Chlorine"

This HazChem program warns about the highly reactive properties of chlorine, and tells how this reactivity is an important consideration in handling, storage and emergency operations as well as in maintenance systems. It warns about the danger of container failure when exposed to flames and discusses using water fog to control vapor releases. Other topics covered include evacuation vs. protection-in-place, neutralizing and controlling spills, use of A, B and C kits designed by the Chlorine Institute, and controlling contaminated runoff. 25 min. 2001.

About "Hazardous Waste"

This program offers many suggestions for identifying suspected hazardous waste and stresses the importance of securing the waste site. It discusses the role of the incident commander, the importance of air monitoring, and the use of protective clothing and its limitations. Other topics covered include safe techniques during sampling to prevent explosions and vapor generation, remote handling procedures, and typical health, flammability and reactivity dangers of hazardous waste. 27 min. 2000

About "Hydrogen Sulfide"

The program "Hydrogen Sulfide" discusses H_2S safety as well as symptoms of exposure and actions to take in the event of a leak or fire. It teaches why the distinctive "rotten egg" odor should not be relied upon to detect H_2S , monitoring equipment and methodology, ventilation procedures, decon methods, suggested protective clothing, and establishing safe areas. It also covers first response to incidents, and explains when letting a fire burn is the best strategy. 27 min. 2002.

"Inorganic Oxidizers"

Covers ammonium nitrate, calcium hypochlorite, and nitric acid, the most common inorganic oxidizers. The video tells where oxidizers might be found and tells what hazards are specific to each chemical. It stresses safe storage and handling procedures, telling what materials are incompatible with oxidizers. Other topics covered include containers, DOT placarding, NFPA markings, first response, size up, protective clothing, controlling vapors, and evacuation. 28 min. 1996.

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“Pesticides”

This program covers the flammability, health and reactivity hazard properties of pesticides, Common symptoms of exposure to toxic pesticides are listed, and medical operations for victims of pesticide poisoning are suggested. EPA labelling and communication systems are discussed, explaining what is and what is not required on pesticide labels and the meaning of signal words. The video teaches what factors are involved in deciding whether to let a fire involving pesticides burn itself out, and how to mount an attack against fire. Other topics covered include extinguishing agents, evacuation vs. protection in place, dealing with contaminated run-off, and clean-up responsibilities. “Pesticides” was selected by the International Association for Fire Fighters as their standard on managing pesticide incidents. 28 min. 2001.

About “Propane, Butane & Propylene”

Provides industry, emergency responders and public officials with a working knowledge of the hazards of liquid petroleum gases. The film explains regulatory compliance requirements of OSHA, DOT and EPA as well as health and safety issues relating to LPG. It teaches about safe storage, carrying out a fire safety analysis, and minimizing the danger of an uncontrolled leak during transfer operations. It also discusses the phenomenon of BLEVEs, the danger of container failure, controlling vapors, monitoring for flammable atmospheres, medical operations for victims, container types, cooling tanks, and when to allow a fire to burn itself out. 29 min. 2005.

About “Sodium Hydroxide & Potassium Hydroxide”

This HazChem program provides basic information on caustics, explains the relevance of pH and tells how it is measured. It discusses the danger of human contact with caustics, and advocates an active program of accident prevention and safety inspection. The video tells where caustics are found and in what common forms. Other topics covered include preventing explosions, neutralization operations, hydrogen gas formation, selecting extinguishing agents for fires, and environ-

mental protection. 25 min. 2002.

“Sulfuric Acid & Hydrochloric Acid”

First in the series and recently updated. “Sulfuric Acid & Hydrochloric Acid” tells how to identify corrosive acids and discusses reactivity issues, neutralization operations, and safety measures to follow when working with corrosives. During emergency response situations, the video warns about water reactivity, proper protective clothing to wear, stemming the flow of product and environmental concerns. Also available in Spanish. Also available as “Hydrochloric Acid.” 26 min. 2005

About the technical committee

Each Emergency Film Group program is created with the assistance of leaders in emergency response training as well as in the specified topic. Some of the highly regarded technical committee members who have worked on HazChem programs include:

Dave Binder, Tanner Industries

David Blomquist, Chief Fire Protection Engineer with Chevron

John Bowen, Professor of biochemistry, University of Hawaii

Bill Bradford, Chairman of NFPA’s Technical Committee on Hazardous Chemicals

Bill Butterbaugh, Asst. Vice President of the National Propane Gas Association

Mike Callan, Senior HazMat Instructor at the Connecticut State Fire School

Leonard Deonaraine, Industrial Emergency Services, Inc.

Jan Dunbar, Division Chief with the Sacramento Fire Department (ret.)

Richard Emery, Emery & Associates, Inc., Vernon Hills, IL

Frank Fire, VP of Americhem Chemical Co. and author of *The Common Sense Approach to Hazardous Materials*

Maurice Greiner, AIChE representative to the ANSI Committee on Anhydrous Ammonia

Jerry Grey, Vice Chairman of the NFPA Technical Committee on Hazmat Response Personnel

Dieter Heinz, hazardous materials consultant and a member of NFPA’s Technical Committee on Hazardous Chemicals

Chris Herman, BP Oil Co.

Mike Hildebrand, Hazardous materials consultant with Hildebrand Noll Associates

Michael Lyden, Vice President at the Chlorine Institute

Greg Noll, Hazardous materials consultant with Hildebrand Noll Associates

Henry Renfrew (dec.) Former representative of the Fire Marshal’s Association of North America (FMANA) on the NFPA 58 Technical Committee on LPG

Glen Rudner, Regional Hazardous

Materials Response Officer, Virginia Dept. of Emergency Management.

Scott Turner, HMHTTC

Bob Wilson, Director of Transportation Operations for Rhone Poulenc Chemical Co.

Ken York, Co-author of *Hazardous Materials/Waste Handling for Emergency Responders*

About the filmmakers

Gordon Massingham, director. For over 25 years one of the world’s leading creators of emergency response training. Winner of more than 130 national and international awards.

Michael Cataldo, producer. Michael comes from a theater and film background having been an art director, producer, assistant director, set designer and prop and special effects creator for eighteen years.

J.B. Lamont, senior editor. J.B. is manager of the Avid non-linear editing suite at EFG. His work has been seen on NBC, ESPN, and many cable outlets.

About the Emergency Film Group

Emergency Film Group, a division of the Detrick Lawrence Corp., was established to distribute quality training films for emergency response and right to know education. Firmly committed to accuracy, EFG uses the best qualified advisors and production crews to ensure that programs are not only exciting to watch, but are also accurate in every detail.

EFG’s worldwide list of customers range from the largest petrochemical companies, to government agencies, to small town fire departments. Every film comes with EFG’s 30-day money-back guarantee if the customer is not satisfied.

For a free color catalog describing all programs available from the Emergency Film Group, please call the toll-free number below.

Program descriptions available on-line at <http://www.efilmgroup.com>

