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Disclaimer

Information and suggestions contained in the pamphlets and other materials listed are drawn from sources believed to be reliable, and are based on the experiences of a number of members of the Chlorine Institute. The Institute and its members, jointly and severally, make no guarantee and assume no liability for information in the publications. Prices are subject to change without prior notification.

Copyright

All Chlorine Institute publications are protected by copyright. No material may be reproduced or used in any form or by any means — graphic, electronic, or mechanical, including storage and retrieval systems — without permission of the publisher.
The Chlorine Institute exists to support the chlor-alkali industry and serve the public by fostering continuous improvements to safety and the protection of human health and the environment connected with the production, distribution and use of chlorine, sodium and potassium hydroxides, and sodium hypochlorite, and the distribution and use of hydrogen chloride. This support extends to giving continued attention to the security of chlorine handling operations.

The Institute strives to meet these obligations by maintaining a scientific and technical organization that fully meets the needs and expectations of its members and the public.

The Institute works with government agencies, its members, and other stakeholders to encourage the use of credible science and proven technology in the development of voluntary actions and regulations to enhance safety and security in operations involving its mission chemicals.

The Institute believes that its mission chemicals are essential to society and can be produced and used safely.

**Goals**

The Chlorine Institute sets out to accomplish its mission by:

I. Improving the performance of safety, human health and environmental protection programs for chlor-alkali producers, packagers, distributors and users.

II. Fostering the development of regulations that support the achievement of continuous improvement and voluntary mechanisms that preclude the need for new government regulations.

III. Positioning the Institute as an authoritative and credible source of technical, safety and security-related information and emergency response procedures to prevent and mitigate the release of chlorine and other mission chemicals.

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**FREE PUBLICATIONS!**

In an effort to promote safety stewardship within the chlor-alkali industry, The Chlorine Institute offers free download access to pamphlets through the online bookstore. *(Pamphlets 10 and 72 are not included in this program but are still available for purchase through the bookstore.)*
THE VALUE of CI Membership

Companies who join the Institute enjoy many benefits.

Please visit our website for details:

COMPANY Membership Criteria

Any company engaged in the production, packaging, distribution or use of chlorine, caustic soda, caustic potash, sodium hypochlorite; the distribution and use of hydrogen chloride; or any company interested in the development and improvement of the chlor-alkali industry is eligible for membership. The four categories of membership are:

North American Producer membership is open to companies that produce chlorine, caustic soda or caustic potash in the United States, Canada and Mexico.

Packager/Bleach Producer membership is open to companies located in North America that produce bleach and package chlorine in 100- or 150-pound cylinders or one-ton containers or cargo tanks.

Overseas Producer membership is open to companies located outside the United States, Canada and Mexico that produce chlorine, caustic soda or caustic potash.

Associate membership is open to all other companies with an interest in the chlor-alkali industry, including makers of equipment for producing, handling, shipping and dispensing chlorine; salt suppliers; chlorine consumers; water and wastewater treatment facilities; pool chlorinators; and designers and builders of chlorine plants.

OUR COMMITMENT to Chlorine Stewardship

All Chlorine Institute member companies that produce, distribute, or use chlorine must sign an annual commitment to implement and maintain safety and security practices.
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## CI Membership = Bottom Line Benefits

*In addition to the many benefits of membership listed on page 3, new CI member companies enjoy immediate bottom-line value with:*

- Significant discounts on all publications and A/V Materials.
- 6 FREE hard copy technical pamphlets of your choice from the 2014 Catalog.
- ONE COMPLIMENTARY meeting registration to the CI meeting of your choice.
SUMMARIES

Safe Production, Handling & Packaging

Pamphlet 1)
Chlorine Basics
Edition 8, May 2014
Contains basic information including properties and physiological effects of chlorine, description and rules for handling chlorine containers, emergency measures and first aid, and chemical and physical characteristics. (62 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 5)
Bulk Storage of Liquid Chlorine
Edition 8, June 2011
Recommends design, construction, location, installation and inspection of non-refrigerated liquid chlorine storage systems. (25 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 6)
Piping Systems for Dry Chlorine
Edition 16, March 2013
Contains information on selected pipe, valves and fittings suitable for use with dry chlorine (gas or liquid) within the range of -150°F and 300°F. There is also guidance on preparations for use and maintenance practices. (88 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 9)
Chlorine Vaporizing Systems
Edition 7, July 2011
Contains information intended to assist in the selection, design and safe operation of vaporizers. (36 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 17)
Packaging Plant Safety and Operational Guidelines
Edition 4, Revision 2, May 2011
Contains recommendations for receiving, inspecting, testing and reconditioning chlorine cylinders, ton containers, valves and fusible plugs at packaging plants. It also covers procedures for filling these containers, personal protective equipment use, tank car receiving, emergency planning/response, and key regulations. (94 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 21)
Nitrogen Trichloride - A Collection of Reports and Papers
Edition 6, September 2010
A compilation of reports and discussions on the subject at past Chlorine Institute Plant Operations Seminars.
   Available for download only

Pamphlet 49)
Recommended Practices for Handling Chlorine Bulk Highway Transports
Edition 9, January 2009
Provides guidelines, recommended practices and other useful information for the safe shipping, receiving, loading, unloading, maintenance and emergency response relevant to handling cargo tank motor vehicles and portable tanks used to transport chlorine by highway. This pamphlet also refers to the applicable regulatory requirements. (63 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 57)
Emergency Shut-Off Systems for Bulk Transfer of Chlorine
Edition 6, June 2015
Recommends practices for emergency shut-off protection during chlorine transfers involving bulk containers. (12 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 60)
Chlorine Pipelines
Edition 7, August 2013
Provides recommendations on the design, construction, operation and maintenance of carbon steel pipelines that transport chlorine liquid or gas. The recommendations are applicable to pipelines that terminate outside the chlorine shipper’s property or crosses property not owned by the shipper or receiver of the chlorine. (24 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 65)
Personal Protective Equipment for Chlor-Alkali Chemicals
Edition 6, July 2015
Provides information pertaining to personal protective equipment (including Respiratory Protection and Equipment) used in the manufacture or handling of chlorine and sodium hydroxide, including when to use which level of PPE. (59 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 66)
Recommended Practices For Handling Chlorine Tank Cars
Edition 5, June 2015
Provides guidelines, recommended practices and other useful information to personnel involved in the shipping, receiving, and/or tank testing of single unit chlorine tank cars. (95 pages)
   Members $26.00
   Non-members $65.00

Pamphlet 73)
Atmospheric Monitoring Equipment for Chlorine
Edition 7, June 2003
Discusses experiences of CI members with ambient chlorine monitors and techniques involved in installing, selecting, maintaining, and calibrating a successful chlorine monitoring system. Provides listing of known monitoring equipment vendors. (27 pages)
   Members $26.00
   Non-members $65.00
**SUMMARIES**

**Pamphlet 76)**
Guidelines for the Safe Motor Vehicular Transportation of Chlorine Cylinders and Ton Containers
Edition 5, June 2012
Provides guidelines, recommended practices and other useful information, including guidance on securement, segregation, driver training, emergency response and regulatory requirements, for shipping chlorine cylinders and ton containers on the highways. (26 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 80)**
Recommended Practices for Handling Sodium Hydroxide Solution and Potassium Hydroxide Solution (Caustic) Barges
Edition 4, August 2014
Provides guidelines, recommended practices and other useful information for the safe shipping, receiving and handling of sodium hydroxide solution and potassium hydroxide solution in barges. This pamphlet also refers to the applicable regulatory requirements. (29 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 82)**
Recommendations for Using 100 & 150 Pound Chlorine Cylinders at Swimming Pools
Edition 3, January 2015
Designed to provide basic information for the safe handling and use of chlorine cylinders kept on site at swimming pools. (44 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 85)**
Recommendations for Prevention of Personnel Injuries for Chlorine Production and Use Facilities
Edition 5, November 2010
Discusses the core elements of a comprehensive safety program for individuals involved in producing and using chlorine and caustic soda. (65 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 86)**
Recommendations to Chlor-Alkali Manufacturing Facilities for the Prevention of Chlorine Releases
Edition 5, October 2010
Provides guidelines for manufacturing facilities to help prevent the occurrence of uncontrolled releases of chlorine, and reference material and discussion to assist the reader with Risk Management Plan (RMP) implementation in the United States. (49 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 87)**
Recommended Practices for Handling Sodium Hydroxide Solution and Potassium Hydroxide Solution (Caustic) Tank Cars
Edition 4, December 2012
Provides guidelines, recommended practices and other useful information for the safe shipping, receiving, loading, unloading and maintenance relevant to handling sodium hydroxide solution and potassium hydroxide solution in tank cars. This pamphlet also refers to the applicable regulatory requirements. (47 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 88)**
Recommended Practices for Handling Sodium Hydroxide Solution and Potassium Hydroxide Solution (Caustic) Cargo Tanks
Edition 3, March 2010
Provides guidelines, recommended practices and other useful information for the safe shipping, receiving, loading, unloading and maintenance relevant to handling sodium hydroxide solution and potassium hydroxide solution in tank cars. This pamphlet also refers to the applicable regulatory requirements. (40 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 89)**
Chlorine Scrubbing Systems
Edition 3, Revision 1, October 2008
General guidance and source information for chlorine producers and consumers for the effective containment and treatment of their gaseous chlorine effluents. (33 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 91)**
Checklist for Chlorine Packaging Plants, Chlorine Distributors and Tank Car Users of Chlorine
Edition 4, April 2014
A checklist designed to help plants using or packaging chlorine from tank cars to evaluate their training, equipment and safety practices. This edition provides more detail from a security standpoint. (10 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 94)**
Sodium Hydroxide Solution and Potassium Hydroxide Solution (Caustic) Storage Equipment and Piping System
Edition 4, September 2012
Provides useful information concerning the storage and piping of sodium hydroxide and potassium hydroxide solutions and offers practical suggestions in the design, construction and operation of these systems. (71 pages)
- Members $26.00
- Non-members $65.00

**Pamphlet 95)**
Gaskets for Chlorine Service
Edition 5, July 2014
Now covers both dry and wet gaskets. Provides guidance to the industry and the public relative to practical materials that can be substituted for asbestos in gasket applications for chlorine service. (13 pages)
- Members $26.00
- Non-member $65.00

**Pamphlet 96)**
Sodium Hypochlorite Manual
Edition 4, October 2011
Contains information for the safe production, handling and use of both industrial and household strength bleach solutions. Provides basic information on useful physical and chemical properties, as well as compatible materials, handling systems and pertinent analytical procedures, emergency response, stability factors, and security issues. (87 pages)
- Members $26.00
- Non-members $65.00
Pamphlet 98)
Recommended Practices for Handling Hydrochloric Acid in Tank Cars
Edition 4, September 2013
Provides guidelines, recommended practices and other useful information for the safe shipping, receiving, loading, unloading and maintenance relevant to handling hydrochloric acid in tank cars. This pamphlet also refers to the applicable regulatory requirements. (81 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 99)
Hydrogen Chloride, Anhydrous (Non-Refrigerated) - Use, Handling and Transportation of Cylinders and Tube Trailers
Edition 3, October 2008
Provides guidelines, recommended practices and other useful information for the safe shipping, receiving, loading, unloading and maintenance relevant to handling of non-refrigerated anhydrous hydrogen chloride in cylinders or tube trailers. This pamphlet also refers to the applicable regulatory requirements. (28 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 139)
Electrical Safety in Chlor-Alkali Cell Facilities
Edition 5, November 2012
 Provides information regarding electrical safety, including identification of hazards, electrical health effects on the body, preventative measures, and first aid, for those responsible for operations and maintenance in chlor-alkali facilities. (39 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 150)
Recommended Practices for Handling Hydrochloric Acid in Cargo Tanks
Edition 3, April 2014
Provides guidelines, recommended practices and other useful information for the safe shipping, receiving, loading, unloading and maintenance relevant to handling of hydrochloric acid in tank motor vehicles, including a best practices section, entitled “Reducing Releases”. This pamphlet also refers to the applicable regulatory requirements. (42 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 152)
Safe Handling of Chlorine Containing Nitrogen Trichloride
Edition 3, July 2011
Provides useful information to producers, distributors, repackagers, and users of chlorine. Discusses nitrogen trichloride, a trace impurity commonly found in chlorine that could lead to the explosive decomposition of nitrogen trichloride in chlorine containing systems, including NCl3 properties, hazard awareness, controls, and prevention. (21 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 155)
Water and Wastewater Operators Chlorine Handbook
Edition 3, May 2014
Provides basic information on chlorine safety and handling necessary for treatment plant personnel and other users of cylinders or ton containers. (54 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 163)
Hydrochloric Acid Storage and Piping Systems
Edition 3, October 2011
Provides useful information concerning the storage and piping of hydrochloric acid solutions and offers practical suggestions in the design, construction and operation of these systems. (51 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 164)
Reactivity and Compatibility of Chlorine and Sodium Hydroxide with Various Materials
Edition 2, August 2007
Provides information concerning the compatibility of these two substances with a variety of materials and their reactivity with other chemicals. The pamphlet attempts to cover only those materials and chemicals typically found in facilities producing, using or otherwise handling chlorine and/or sodium hydroxide. This pamphlet is not meant to provide the detailed technical information that may be required by process engineers. (32 pages)
  Members $26.00
  Non-Members $65.00

Pamphlet 165)
Instrumentation for Chlorine Service
Edition 2, July 2009
Provides guidelines and practices for the selection of materials, selection of primary elements and control devices and the design of instrumentation, including sensing lines for gas and liquid chlorine service. The recommendations are based on current industry practices. (24 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 166)
Angle Valve Guidelines for Chlorine Bulk Transportation
Edition 1, October 2002
Provides performance/selection criteria to identify valves other than the ‘standard’ suitable for use on bulk liquid chlorine transportation equipment. An appendix includes information on valves that meet these criteria. Includes drawings from four valve suppliers. (21 pages)
  Members $26.00
  Non-members $65.00

Pamphlet 167)
Learning From Experience
Edition 3, May 2014
Summarizes several incidents that have occurred in chlorine production, chlorine packaging, sodium hypochlorite production and user facilities pertaining to the chlor-alkali industry. The pamphlet now includes incident information on accidental mixing and downstream chlorine inhalation incidents. No nitrogen trichloride incidents are included. (28 pages)
  Members $26.00
  Non-Members $65.00

Pamphlet 168)
Guidelines for Dual Valve Systems for Bulk Chlorine Transport
Edition 2, July 2015
The purpose of this pamphlet is to set forth performance/selection criteria that should be utilized in identifying dual valve systems for bulk chlorine transportation applications (i.e. tank cars, cargo tanks and barges). These configurations are intended to meet U.S. Department of Transportation (DOT) and Transport Canada (TC) performance requirements. This pamphlet contains information pertaining to standardizations, performance/design criteria, operational considerations and installation considerations, as well as an appendix that includes valve manufacturer information. (36 pages)
  Members $26.00
  Non-Members $65.00
SUMMARIES

WC-1)  
Wall Chart: Handling Chlorine Cylinders and Ton Containers  
Edition 3, September 2011  
Contains recommendations for safe handling of chlorine cylinders and ton containers, emergency procedures and applicable principles of first aid.  
Members $26.00  
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WC-1SP)  
Wall Chart: Handling Chlorine Cylinders and Ton Containers  
Edition 3, September 2011  
Spanish translation.  
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WC-1FR)  
Wall Chart: Handling Chlorine Cylinders and Ton Containers  
Edition 3, September 2011  
French translation.  
Members $26.00  
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WC-2)  
Wall Chart: Handling Sodium Hypochlorite  
Edition 2, September 2014  
Designed to serve as general references for end users of sodium hypochlorite, this chart contains recommendations for safe handling of sodium hypochlorite, emergency procedures and applicable principles of first aid.  
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WC-2SP)  
Wall Chart: Handling Sodium Hypochlorite  
Edition 2, September 2014  
Spanish translation.  
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WC-2FR)  
Wall Chart: Handling Sodium Hypochlorite  
Edition 2, September 2014  
French translation.  
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Health and the Environment

Pamphlet 137)  
Guidelines: Asbestos Handling for the Chlor-Alkali Industry  
Edition 6, February 2011  
Addresses safe asbestos handling procedures for the chlor-alkali industry and deals primarily with North American requirements. (26 pages)  
Members $26.00  
Non-members $65.00

Emergency Planning and Response

Pamphlet 63)  
First Aid, Medical Management/Surveillance and Occupational Hygiene Monitoring Practices for Chlorine  
Edition 8, June 2011  
Provides information for the administration of first aid and medical treatment for anyone who has been exposed to gaseous or liquid chlorine. In addition, this pamphlet provides information pertaining to the administration of medical surveillance programs, exposure assessment programs, and industrial hygiene practices for persons who may be potentially exposed to chlorine. (18 pages)  
Members $26.00  
Non-members $65.00

Pamphlet 64)  
Emergency Response Plans for Chlor-Alkali, Sodium Hypochlorite, and Hydrogen Chloride Facilities  
Edition 7, November 2014  
Includes information essential to the preparation or updating of formal, written emergency response which would be utilized during an accidental release or potential accidental release of chlor-alkali products. (42 pages)  
Members $26.00  
Non-members $65.00

Pamphlet 74)  
Guidance on Estimating the Area Affected by a Chlorine Release  
Edition 6, June 2015  
Provides a simplified document to assist chlorine producers/users in complying with EPA requirements issued under the Clean Air Act and to assist local emergency planning committees, fire departments, and municipalities in estimating the area affected by a chlorine release for emergency planning and hazard assessment purposes. (59 pages)  
Members $26.00  
Non-members $65.00

Pamphlet 160)  
Estimating the Area Affected by a Hydrogen Chloride Release  
Edition 1, May 1999  
Provides a simplified document to be used by producer(s) and user(s) of anhydrous hydrogen chloride and hydrochloric acid, local emergency planning committees, fire departments and municipalities to estimate the area affected by a hydrogen chloride release for emergency planning and hazard assessment purposes. (90 pages)  
Members $26.00  
Non-members $65.00

Pamphlet 169)  
Hydrochloric Acid Solution Bulk Transports Emergency Response Guidelines Handbook  
Edition 1, March 2012  
This document provides useful information for emergency responders who may have to handle an incident involving bulk transport of hydrochloric acid solution. (11 pages)  
Members $26.00  
Non-members $65.00

Pamphlet 170)  
Hydrogen Chloride, Anhydrous (AHCL), Bulk Transports Emergency Response Guidelines Handbook  
Edition 1, October 2007  
This guidance document provides useful information for emergency responders who may have to handle an incident involving tank cars of anhydrous hydrogen chloride, refrigerated. (23 pages)  
Members $26.00  
Non-members $65.00
Properties of Chemicals and Analytical Techniques

Pamphlet 72)
Properties of Chlorine in SI Units
Edition 3, August 2011
Covers density, volume, vapor pressure, heat capacity ratio, compressibility, enthalpy, entropy fugacity coefficient, Joule Thompson coefficient, velocity of sound, surface tension, thermal conductivity and viscosity of chlorine. (85 pages)

Members $28.00
Non-members $70.00

Pamphlet 100)
Dry Chlorine: Behaviors of Moisture in Chlorine and Analytical Issues
Edition 4, July 2011
Provides a technical definition of dry chlorine over a wide range of temperature and dissolved water content conditions. It contains charts showing the solubility of water in chlorine to determine if the moisture content is under control and corrosive conditions exist. Also includes a discussion of sampling techniques to avoid moisture contamination problems. (40 pages)

Members $26.00
Non-members $65.00

Pamphlet 121)
Explosive Properties of Gaseous Mixtures Containing Hydrogen and Chlorine
Edition 3, January 2009
Brings together in a single source all known pertinent, published references on explosive properties of gaseous mixtures containing hydrogen and chlorine. The reaction characteristics of hydrogen admixed with chlorine, oxygen and inert gases information is based on the literature review of reaction characteristics of hydrogen with chlorine and with mixtures of chlorine and oxygen, and represents an attempt to graphically show ignition and detonation zones for the systems hydrogen-chlorine-oxygen and hydrogen-chlorine-air. (34 pages)

Members $26.00
Non-members $65.00

ASTM Analytical Methods should be ordered directly through the ASTM in Conshohocken PA.
Phone: (610) 832-9500
Fax: (610) 832-9555
Web: www.ASTM.org

Chlorine Manufacturing And Industry Data

Pamphlet 10)
North American Chlor-Alkali Industry Plants and Production Data Report for 2014
July 2015
Lists location of chlor-alkali plants, chlorine packaging facilities, and sodium hypochlorite production facilities with types of cells and shipping containers loaded at each location. A table added in 2001 lists Sodium Hypochlorite Production facilities in North America. Includes annual data on chlorine capacity, production and shipments in the U.S., Canada and Mexico, some by geographical distribution. Updated annually. (18 pages)

Members $36.00
Non-members $90.00

CCPSR)
Monthly US Chlorine & Caustic Production Statistics Report
CI offers a monthly report on industry production capacity for chlorine, and the quantity of chlorine actually produced, liquified, and shipped for each month. It also includes production data for sodium hydroxide. It does NOT contain any pricing or inventory data. CI issues each month’s report before the end of the following month.

Members: no charge
Non-members $125 annual subscription

INDEX)
Chronological Index Of Health, Environment, Safety, And Security (HESS) Seminar Proceedings
March 2014
Lists titles of all papers and authors for seminars from 1957 onward. (46 pages)
Free to download
SUMMARIES

Audio-Visual Materials

A-DVD)
Emergency Kit “A” and Recovery Vessel Instructional Video
Edition 4, January 2014
Addresses the containment of leaks that could occur in 100 lb. and 150 lb. chlorine cylinders. This video includes how to apply the A-Kit for emergency kits manufactured before AND after the latest kit was released on January 1, 2014. The Kit “A” is designed to contain leaks in and around the valve area and cylinder side wall. The Recovery Vessel is designed to contain all other leaks. (28 minutes)

- Members $32.00
- Non-members $80.00

B-DVD)
Emergency Kit “B” for Chlorine Ton Containers
Edition 3, November 2014
Covers what to do in a chlorine emergency, where leaks occur on a chlorine ton container and the proper uses of tools and devices in the Emergency Kit “B”. (30 minutes)

- Members $32.00
- Non-members $80.00

C-DVD)
Emergency Kit “C” for Chlorine Tank Cars and Tank Trucks
Edition 2, April 2014
This instructional video demonstrates the proper use of tools and devices supplied in Emergency Kit “C”, to stop leaks on chlorine rail tank cars and tank trucks. (13 minutes)

- Members $32.00
- Non-members $80.00

CLS-DVD)
Preventing Non-Accident Releases (NARs) from Chlorine Railcars by Properly Securing Return Shipments
Edition 2, April 2014
This 17-minute video provides guidance for the shipment of chlorine residue tank cars and the reduction of non-accident releases (NAR’s). Topics covered include the definition of an NAR, U.S. Department of Transportation incident reporting requirements, shipper responsibilities, best practices to reduce chlorine residue tank car NAR’s and available guidance and resources, such as additional CI guidance. (17 minutes)

- No charge

CST-DVD)
The Chlorine Safety Tour
Edition 1, September 2013
This video is a training guide for chlorine emergency response. Presentation topics include: chlorine properties and emergency response; chlorine tank cars and rail safety; and the proper use of Emergency Kits A, B and C to mitigate leaks from chlorine cylinders, ton containers and tank car valves. The DVD also includes presentation support materials for instructors to use in creating interactive workshops (3 hours).

- No charge

FR-DVD)
Chlorine Emergencies: an Overview for First Responders
Edition 2, January 2015
This program was developed to help first responders prepare to act in those critical first 15 minutes – what to do when the call comes in, what to expect on-scene, and where to find the resources needed to contain a release. This second edition has been expanded to include information on resources for mobile devices, security & antiterrorism considerations, a more robust explanation of shelter-in-place, and more chlorine release footage. (87 minutes)

- No charge

H-DVD)
First Response to Short-Term Chlorine Exposures
Edition 2, November 2006
Overview of medical symptoms and treatment of chlorine exposure. (9 minutes)

- Members $32.00
- Non-members $80.00

HCLS-DVD)
Preventing Non-Accident Releases by Properly Securing Hydrochloric Acid Railcars
Edition 1, 2014
Provides guidance for the shipment of hydrochloric acid (HCl) tank cars and the reduction of non-accident releases (NARs). Topics covered include the definition of an NAR, U.S. Department of Transportation incident reporting requirements, shipper responsibilities, best practices to reduce HCl tank car NARs and available guidance and resources, such as additional Chlorine Institute guidance. (22 minutes)

- No charge

HYPO-DVD)
Handling Sodium Hypochlorite Safely
Edition 2, 2010
Provides guidelines, recommended practices and other information for the safe handling, storage, loading and unloading of sodium hypochlorite tank cars and tank trucks. This video also includes sodium hypochlorite properties, health effects, reactivity, suitable materials of construction, and common uses. (25 minutes)

- Members $32.00
- Non-members $80.00

PCS-DVD)
Pool Chemical Safety
Edition 1, 2012
This 13-minute online video details basic safe chemical handling techniques for pool operators. Topics include chemical safe handling, storage, and emergency/accident response.

- No charge - Available online only

W-DVD)
Chlorine Safety for Water and Wastewater Operators
Edition 2, February 2009
Although produced with water & wastewater operators in mind, this DVD provides information about chlorine useful to everyone handling the chemical and especially for end users of cylinders and ton containers. (35 minutes)

- Members $32.00
- Non-members $80.00
Discounts
A quantity discount of 10% is available to CI member companies for orders of 20 or more of the same title.

Non-profit emergency response organizations and water and wastewater municipalities may order materials at the Institute’s member prices. Emergency response organizations include fire, police and sheriff’s departments, civil defense and medical authorities who need to train responders and use Institute materials on-site during chlorine incidents.

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The Chlorine Institute accepts product orders via Web, fax, phone and mail. Order online via credit card and download your publications from www.chlorineinstitute.org to save shipping and handling fees.

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* Prices are subject to change without prior notification.

The Chlorine Institute takes a holistic approach to chlorine safety and stewardship by maintaining relationships across the chlor-alkali industry to develop its technical resources. All technical pamphlets and resources are developed and reviewed by a team of experienced industry leaders from CI’s member companies who serve on CI’s four issue teams and various advisory groups.

The issue teams are listed below:

Product Stewardship
Established in 2016, serves as a forum for the industry’s safety concerns and promotes zero releases, injuries and process safety incidents involving mission chemicals among our customers. This team works to facilitate the responsible use of mission chemicals among our customers.

Emergency Preparedness
Established in 2006, serves as a forum for CI’s members who strive to minimize the impact of a chlorine or AHCl release by enabling the first responders to react in an effective manner. This team is responsible for ensuring that CHLOREP® remains an effective emergency response tool.

Health, Environment, Safety and Security
Established in 2016, serves as a forum for members who work to achieve zero incidents, releases and injuries with a focus on process safety and security.

Transportation
Established in 2006, strives to maintain the ability to transport chlorine and other mission chemicals in a safe and secure manner. This team focuses on various facets of chlorine transportation by rail and highway. The ultimate goal is to eliminate transportation accidents and releases.

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