



What is CHLOREP?

- The Chlorine Emergence Plan established in 1972
- A 24/7 chlorine emergency response mutual aid network
- Supported by:
 - 80 response teams from 22 member companies that produce, package, or use chlorine
 - 12 chlorine emergency response contractors that meet stringent industry performance requirements





CHLOREP Mission & Scope

Mission:

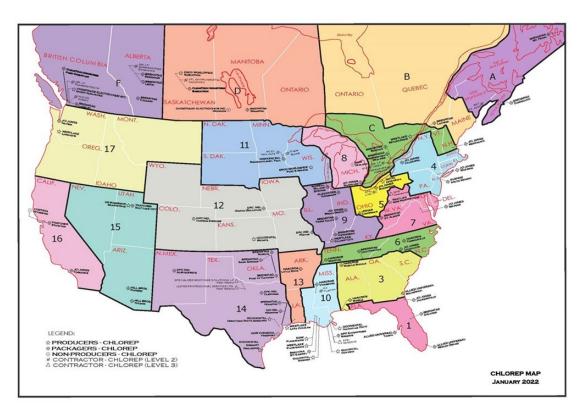
- 1. Prepare and educate participants to assure effective emergency response preparedness, prevention, and mitigation of chlorine incidents
- 2. Ensure timely and professional response to all chlorine incidents

<u>Scope:</u> Chlorine emergencies in transportation and at smaller end-user facilities

How Does CHLOREP Achieve Its Mission?

- Provide complete CHLOREP coverage for the U.S. & Canada
 - Currently in the process of expanding into Mexico
- Implement & maintain a strong Emergency Response Contractor Verification
 Program
 - Supplement responses requiring more advanced capabilities or are located in remote areas
- Provide annual training for CHLOREP Teams & Contractors
 - Advanced training every three years for more experienced responders
- Support preparedness needs of state & local responders for chlorine emergency response through hands-on training

How is CHLOREP Organized?







How is CHLOREP Organized?

CHLOREP Sectors

- U.S. & Canada divided into 21 sectors
- Majority of sector borders are state/provincial boundaries
- CHLOREP Teams respond to emergencies within their sector, **regardless if they are the shipper/package owner or not**

CHLOREP Teams

- Primary Teams
 - One response team in each sector receives initial call for assistance
 - Typically a chlorine producing plant
- Secondary Teams
 - Provide additional support for response within the sector when called upon
 - Depending on location and containers involved



How is CHLOREP Activated?

Primarily through 24/7 emergency call centers

In the U.S. Call CHEMTREC 1-800-424-9300

Press #1 for all chlorine calls Accepts international calls



In Canada Call CANUTEC 1-888-226-8832





CHLOREP Activation - CHEMTREC

1. CHEMTREC receives emergency call

- Collects details on chlorine incident
- Informs caller that CHLOREP assistance will be activated

2. CHEMTREC dispatcher identifies CHLOREP sector and calls designated Primary CHLOREP Team

- Emergency phone number and Team contact info provide by Chlorine Institute
- First call made, even before notifying the shipper

3. Primary Team Leader immediately calls on-site emergency contact

- Collect additional details on chlorine incident
- Determines appropriate response needs



Primary CHLOREP Team Decisions

1. Provide technical advice over the phone, as needed

- Are on-site fire responders or hazmat team capable of mitigating the release?

2. Determine if emergency requires on-site assistance

- Can the Primary Team dispatch for effective assistance in the timeliest manner?
- Is there a Secondary Team closer that can provide needed assistance?
- Is the emergency of a condition that requires assistance from a CHLOREP Contractor?
- Was the release already mitigated and the package needs picked up for disposal?







First Responders – First Line of Defense

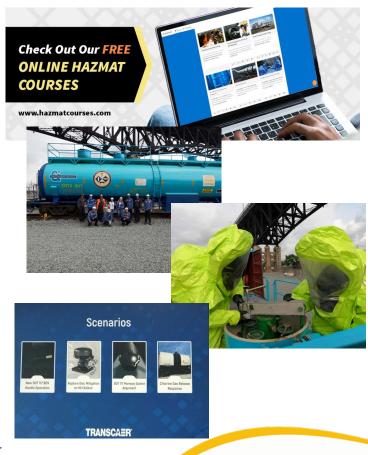
- Support preparedness needs of state & local responders for chlorine emergency response through hands-on training (part of CHLOREP mission)
 - Provide hands-on chlorine emergency response training throughout North America
 - Use CHLOREP Teams & Contractors for instruction
 - Training rail tank car and flatbed railcar that houses training props
 - Typically held at a rail partner yard
- Conducted under TRANSCAER® program
 - Transportation Community Awareness & Emergency Response
 - Established in 1986 to assist communities in preparing for potential hazardous materials incidents
 - Programs in U.S., Canada, and Mexico





TRANSCAER in Action

- First Responder Training
 - Hands-On Training
 - Online Learning Management System
 - Online Videos
 - Augmented Reality Training (mobile app in process)
- Supported by North American trade association sponsors (Chlorine Institute is a sponsor), member companies, corporate sponsors, and federal agency partners
- Multiple products, modes, and containers
- Significant financial support through federal emergency response grants (U.S. DOT)
 - Federal Railroad Administration \$977k support since 2010
 - Pipeline & Hazardous Materials Safety Administration -\$950k support since 2019





CHLOREP Contractors – Expert Support

- Implement & maintain a strong Emergency Response Contractor Verification Program (part of CHLOREP mission)
- Ensures availability of adequate response capabilities by alternative methods outside the traditional CHLOREP network, particularly for remote or complex incidents
- Must be a Chlorine Institute member and meet certain capabilities and obligations
- U.S., Canada, and Mexico
- Verified to Level 2 or Level 3
 - Level 2 site visit every two years
 - Level 3 site visit every four years





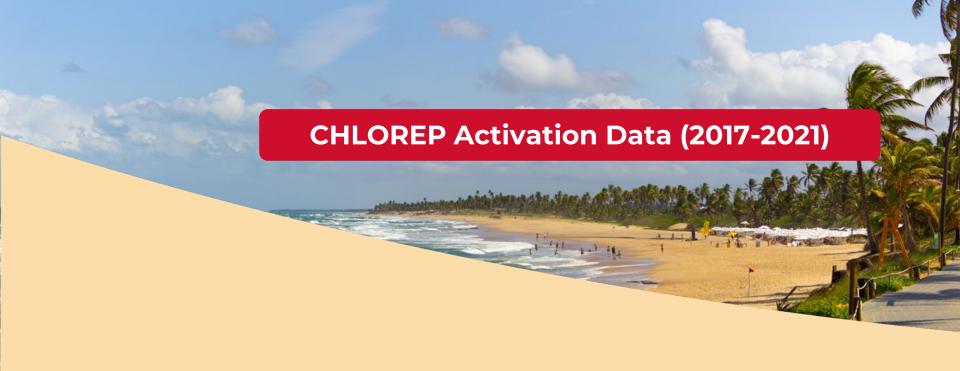


CHLOREP Contractors – Capabilities

Primary response capability differences:

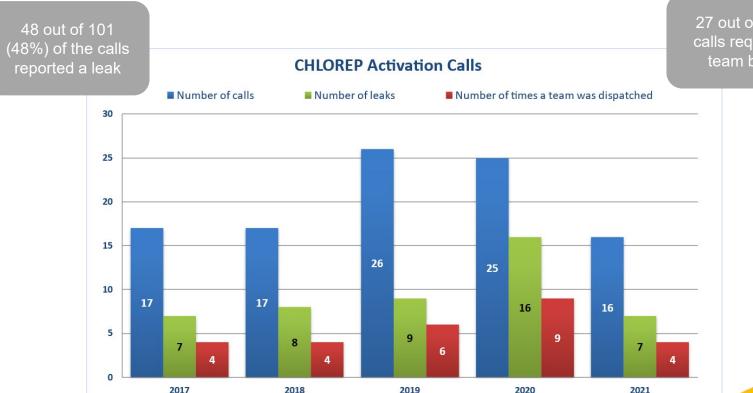
| Level 2 | Small container leaks (cylinders & ton containers) Minor release from tank car valve or pressure relief device Mitigate with chlorine emergency A, B, or C-Kit |
|---------|--|
| Level 3 | Level 2 capabilities, plus: Special handling & field transfer capabilities for severely or potentially damaged bulk containers (cargo tanks & tank cars), which have the potential for high impact consequence to public/environment (chlorine, VCM, and anhydrous HCI) |





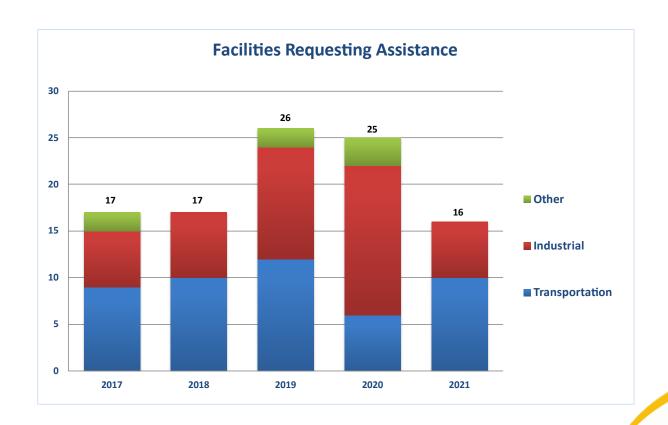


Total CHLOREP Activation Calls

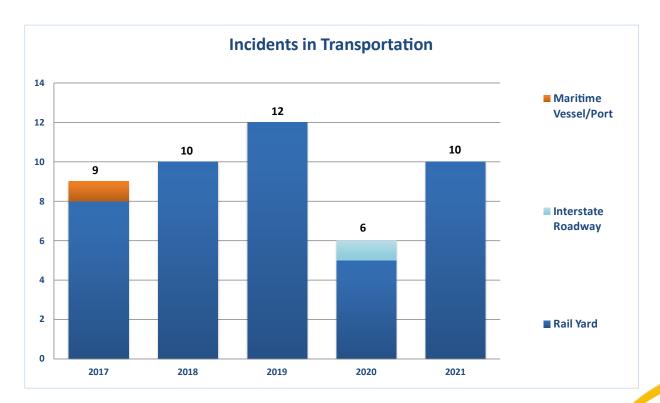


27 out of 101 (27%) of the calls required a CHLOREP team being dispatched

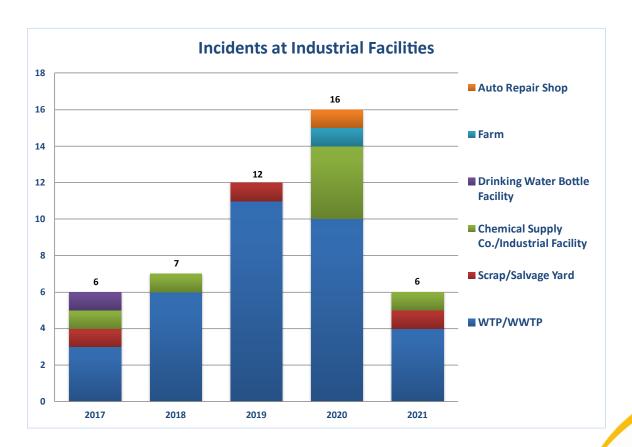




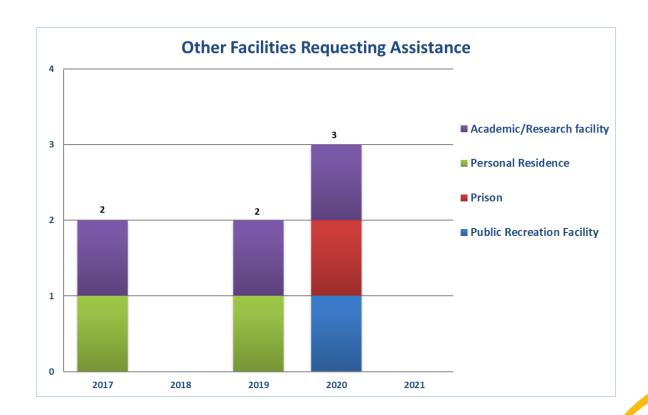






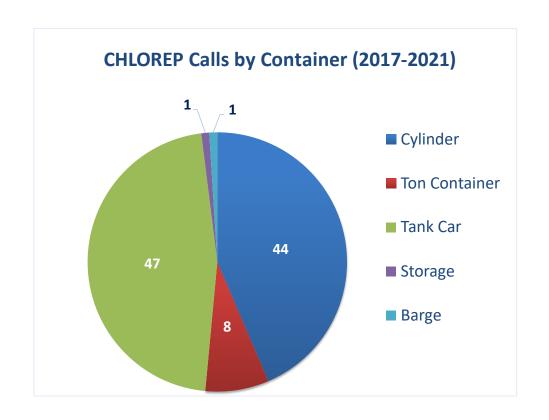








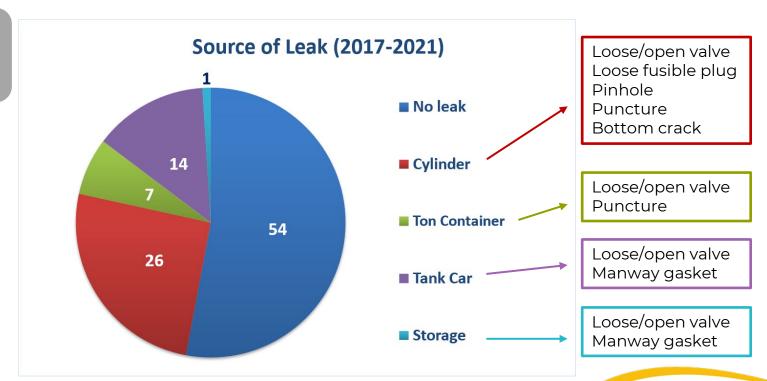
Calls by Container





Leaks by Container Type

48 out of 101 (48%) of the calls reported a leak









CI Emergency Response Resources

- Publications available for download and streaming for FREE to first responders (email <u>bookstore@CL2.com</u> to request)
 - Chlorine emergency kit instruction booklets
 - Chlorine emergency kit instruction video
 - Chlorine Emergencies: An Overview for First Responders (video)
 - Other safety publications and videos
- Additional resources can be found on CI's website:
 www.chlorineinstitute.org
- Non-emergency technical services email: techsvc@CL2.com



