










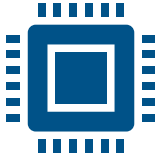





CHEMLOCK PROGRAM OVERVIEW

**KNOW YOUR CHEMICALS.
LOCK IN YOUR SECURITY POSTURE.**



Industries with Dangerous Chemicals

 Colleges and Universities	 Cold Chain/ Refrigeration	 Fisheries and Hatcheries	 Energy Utilities	 Agricultural Production
 Laboratories	 Mining	 Industrial Manufacturing	 Paints and Coatings	 Plastics Manufacturing
 Pulp and Paper	 Semiconductor Manufacturing	 Motor Racing	 Warehouses/ Distribution	 Water Treatment



CHEM LOCK

Know your **chemicals**.

Lock in your security posture.



Chemical Hazards



Toxics and Toxic Precursors

Can cause death or serious injury through inhalation

► Examples: Ammonia, chlorine



Flammables

Can create a vapor cloud that explodes

► Examples: Butane, propane



Explosives and Explosive Precursors

Can be used to create an explosive device

► Examples: Ammonium nitrate, hydrogen peroxide



ChemLock Services and Tools



On-Site Assessments and Assistance

- ▶ Security awareness consultations
- ▶ Security posture assessment
- ▶ Security planning visit



ChemLock Resources

- ▶ Security planning guidance
- ▶ Security planning template
- ▶ Fact sheets and best practices



Exercises and Drills

- ▶ Chemical security exercise templates
- ▶ CISA-facilitated tabletop exercises



Training Courses

- ▶ Introduction to Chemical Security
- ▶ Secure Your Chemicals Security Planning



Special Access to CISA Services

- ▶ CISA Active Shooter Preparedness
- ▶ Cyber Security Evaluation Tool (CSET) Demo



**All ChemLock services are
completely voluntary and no cost.**

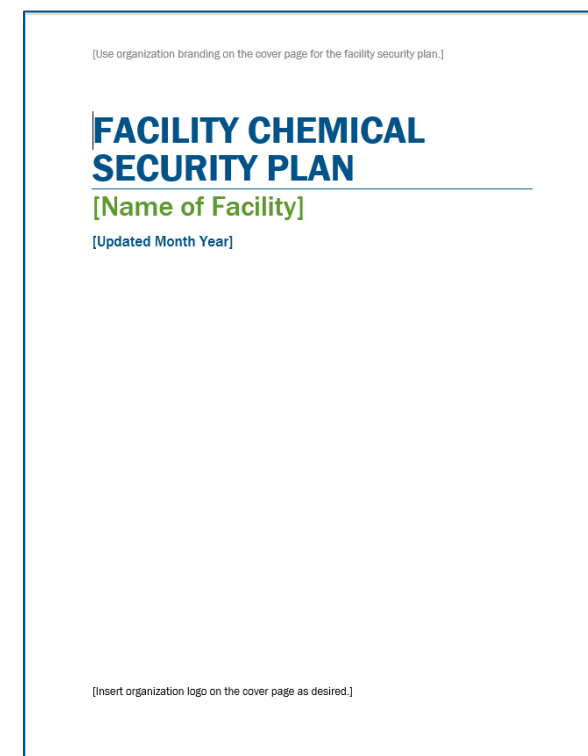
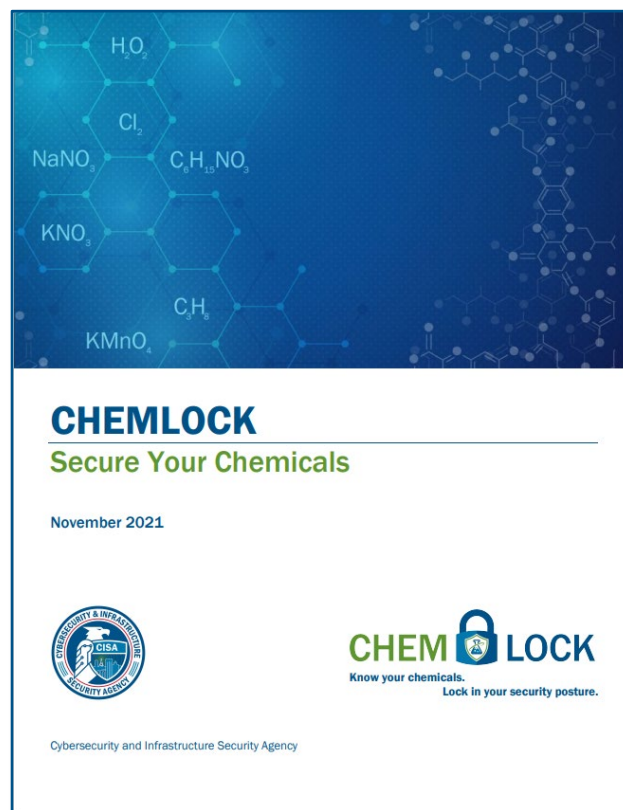
ChemLock Publications



Guidance Documents:

Helps facilities build a step-by-step chemical security plan tailored to their business model and unique circumstances

- ChemLock: Secure Your Chemicals
- ChemLock: Secure Your Chemicals Facility Plan Template
- Secure Your Chemicals: Before, During, and After a Pandemic



On-Site Assessments and Assistance



**Which
security
measures will
best enhance
security at
your facility?**

- Risk management processes
- Cyber and physical security gap assessment
- Assessment of existing security measures
- Recommendations for adding or enhancing security measures
- Assistance in developing tailored security plans



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Facilities can request on-site assessments and assistance at cisa.gov/chemlock.

ChemLock Publications (cont.)



Fact Sheets: Focuses on a particular aspect of chemical security

- ChemLock Overview
- ChemLock: Reporting Suspicious Activities and Security Incidents
- ChemLock: Chemical Product Stewardship
- ChemLock: Drone Activity
- ChemLock: Chemical Security Considerations for No-Notice Events
- ChemLock: Chemical Security Self-Assessment
- ChemLock: Security on a Budget



ChemLock:
Chemical Security on a Budget

Overview

Whether a small business or an international company, everyone who interacts with dangerous chemicals has a role to play in understanding the risk and taking collective action to prevent chemicals from being weaponized by terrorists. The Cybersecurity and Infrastructure Security Agency's (CISA) ChemLock program is a completely voluntary program that provides facilities that possess dangerous chemicals no-cost services and tools to help them better understand the risks they face and improve their chemical security posture in a way that works for their business model. This resource highlights some simple, effective, and cost-efficient actions to enhance a facility's security posture.

Security Goals

When considering how to optimize chemical security at your facility, it is important to start with an assessment of the different threats and hazards that may affect your facility, the vulnerability of your facility to an attack, and the consequences if the threat were to occur. For example, where are dangerous chemicals located, who has access to them, and how difficult are they to access or remove? Once these risks are assessed, facilities can apply a holistic approach to improve security measures using five security objectives.

1. Can you **DETECT** an attack or suspicious activity?
2. Can you **DELAY** the adversary?
3. Are you able to **RESPOND** in a timely manner?
4. Are you protecting your **CYBER** assets?
5. Do you have **POLICIES, PLANS, and PROCEDURES** to implement your plan and security measures?

Examples of Effective, Cost-Efficient Security Measures

Detection

- Explore opportunities for low-cost video monitoring systems and alarms.
- Train facility personnel on identifying and reporting suspicious activity.
- Develop an inventory control process to routinely check your chemical holdings, including:
 - Maintaining an inventory of quantity and location(s) for each chemical on site.
 - Monitoring frequency of access by authorized personnel.
 - Identifying the process for tracking receipts and chemical shipments as applicable.
- Ensure adequate lighting to deter and detect intrusion attempts.

Delay

- Consider perimeter and asset barriers that delay intruders and increase time for detection and response.
- Store smaller, portable containers of chemicals in cages or defined rooms with secure doors requiring specific keys, access cards, or keypad codes.
- Consider vehicle identification measures for vehicles to access the premises.
- Ensure access points are locked when not in use or manned.

CISA | DEFEND TODAY, SECURE TOMORROW

cisa.gov/chemlock | ChemLock@cisa.dhs.gov | [LinkedIn.com/company/cisagov](https://www.linkedin.com/company/cisagov) | [@CISAgov](https://twitter.com/CISAgov) | [@uc5uicert_gov](https://www.youtube.com/channel/UC5uicert_gov) | [Facebook.com/CISA](https://www.facebook.com/CISA) | [@cisagov](https://www.instagram.com/cisagov)

ChemLock Publications (cont.)



Flyers: Brings general awareness to chemical threats and need for chemical security measures

- Know Your Chemicals
- Secure Your Chemicals: Chemical Threats

Toolkits: Provides variety of resources to help facilities evaluate chemical security and preparedness

- In development





KNOW YOUR CHEMICALS

Chemicals are critical to our economy, national security, and public health. But in the wrong hands, dangerous chemicals can be weaponized by terrorists.



- ▶ What is your facility's security posture?
- ▶ Do you know if your facility possesses dangerous chemicals that could be weaponized by terrorists?
- ▶ What security does your facility have in place to prevent chemicals being weaponized?

Chemical security is national security.

The Cybersecurity and Infrastructure Security Agency's (CISA) ChemLock program is a completely voluntary program that provides facilities that possess dangerous chemicals no-cost services and tools to help them better understand the risks they face and improve their chemical security posture in a way that works for their business model.

CHEM LOCK
Know your chemicals. Lock in your security posture.

Learn more at cisa.gov/chemlock.

Exercises and Drills



- CISA Tabletop Exercise Packages (CTEPs), drills, and general materials to help conduct exercises tailored to chemical security
 - Active Shooter
 - Drone Threat
 - Cyberattacks
 - Fire as a Weapon
 - Active Threat Communication
 - Complex Coordinated Attack
 - Edged Weapon
 - Vehicle Ramming
 - Improvised Explosive Device
 - Vehicle-Borne Improvised Explosive Device
 - Theft and Diversion
 - Insider Threat
 - Chemical Release/Spill
 - Civil Unrest



Facilities can request live exercise that are tailored to the needs and requests of the participating facility at cisa.gov/chemlock.

Training Courses



ChemLock Training 1 – Introduction to Chemical Security

An introductory course that provides an overview to chemical security and identifies key components for chemical security awareness.

ChemLock Training 2 – Secure Your Chemicals: Security Planning

An in-depth course that:

- ▶ Provides an overview of the ChemLock: Secure Your Chemicals resource
- ▶ Identifies elements of a security plan, examples, lessons learned, and best practices
- ▶ Walks through how to create a tailored, scalable security plan



Special Access to CISA Services



- ChemLock provides access to these CISA services:
 - Active Shooter Preparedness
 - Cyber Security Evaluation Tool (CSET)
- Services are provided specifically for ChemLock participants
- Information on additional CISA services is available at cisa.gov/chemlock.



How Do I Sign Up for a ChemLock Service?

- Visit cisa.gov/chemlock
- Fill out our short service request form
- CISA will contact you to follow up about the service you are requesting

Questions about ChemLock?



ChemLock@cisa.dhs.gov



cisa.gov/chemlock



CHEM  **LOCK**

ChemLock Request Form

Thank you for your interest in the ChemLock Program. ChemLock services help facilities that possess dangerous chemicals understand their potential vulnerabilities and identify security options for addressing them.

Please complete this form in its entirety by **clicking the "Done" button on the final page** to request contact from a CISA representative to discuss a ChemLock Service.

* Required



CHEM  **LOCK**

1

Select the ChemLock service you are requesting

If you would like to request multiple services at this time, please select 'Other' and list all desired services in the text field provided.

*

Example ChemLock Service Request Form

SCAN HERE TO LEARN MORE



ABOUT THE CHEMLOCK PROGRAM!



✉ ChemLock@cisa.dhs.gov

➡ cisa.gov/chemlock