## DoD Chemical Intelligence Program

Defense Logistics Agency (DLA) Hazardous Material Management System (HMMS) is the program leading the Technical Integration efforts of the Emerging Chemicals Governance Council (ECGC). In order to accomplish this a methodology and supporting technical infrastructure is required for a centralized conduit for DoD chemical manufacturers to submit product Safety Data Sheet (SDS) data along with supplemental information containing the full formulation disclosure for all products procured by the DoD.

While manufacturers often provide ingredient listings for chemicals of regulatory concern or otherwise required for hazard communication, the residual delta of nondisclosed ingredients are sometimes later proven to be hazardous in subsequent years. Full ingredient data is necessary for comprehensive employee exposure records, vulnerabilities supply and impact assessments, environmental protection efforts, and full accountability for the various facets that ingredient information is used to support the mission of the DoD.

This technical solution will be used in conjunction with corresponding changes to DoD procurement and acquisition policy and guidance. DLA is working with industry partners to streamline how this information can be effectively and securely transmitted to the DoD while minimizing impact on government partners to the greatest extent possible.



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# DoD Chemical Intelligence Program



Solving the Gap in Supplier Ingredient Disclosure

DLA Environmental Technology Solutions

# Department of Defense Chemical Intelligence Program (CIP)

#### **Program Overview**

**Objective:** Obtain, process, and store digital data of the full formulation for all products (chemicals, articles, weapons, etc.) purchased by the DoD.

**Sponsor:** Office of the Assistant Secretary of Defense (OASD)

**Stakeholders:** All components with responsibility for compliance with the PACT Act, OSHA, EPCRA, TSCA, and other regulatory compliance measures.

Implementation Lead: Defense Logistics Agency

Implementation Phase: Proof-of-Concept

#### Why is this initiative important?

This initiative is critical for securing vital data for recording and reducing DoD employee chemical exposures, reducing supply chain vulnerabilities, expanding mission impact awareness, and improving our efforts for environmental management.

#### The DoD currently lacks full visibility on all ingredients employees are exposed to, where these ingredients are sourced, and how its mission will be impacted with sudden chain disruptions, and how it can meet evolving regulations and emerging chemicals

# What are emerging contaminants and how do they impact the DoD?

Emerging chemicals are synthetic or natural occurring chemicals that are typically not monitored or communicated to product consumers, but they have the potential to cause adverse impacts to human health or the environment.

Poly- and Perfluoroalkyl substances (PFAS) are examples of man-made chemicals that do not breakdown and lead to bioaccumulation in human bodies and the environment with potential adverse effects on both.

Current OSHA and GHS regulations only require chemical manufacturers to communicate those chemicals that are hazardous. Occupational health exposure assessments are thus completed on incomplete product formations leading to potential adverse and unrecorded exposures for DoD personnel.



What are the consequences in not knowing what's in our products?

The Covid-19 pandemic identified how globally distributed supply chains can be impacted during a time of crisis. Full product accountability (including chemical compositions) is critical to being able to forecast mission impacts if resources suddenly become unavailable. Product accountability can quickly become a national security issue and have a direct impact on the availability of our weapon systems.

### **Implementation Objectives**

- Contractual and Policy changes to require a centralized digital submission of full formulation/ disclosure with safety data for chemicals and articles. Preferred documentation will be XML (DoD SDS XML standard) containing all product ingredients.
- Data extraction and full chemical formulation population into a single centralized and standardized safety data sheet library.



 System integration to disseminate standardized safe ty data throughout the DoD and removing redundancies currently realized in acquisition, procurement, logistics, inventory, and EH&S systems.



4. Creation of a DoD data lake for full visibility on all chemicals the DoD procures and transactional data for full product lifecycle and accountability. The first centralized product accountability and security system will allow for full chemical exposure data for DoD personnel and increased environmental management while improving our national security.

