



# Joint use of TRI and CDR

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# Presentation Overview

- Introduction to CDR
- TRI and CDR overview and comparison
- Mapping TRI-CDR
- Tools Demonstration: 2020 CDR National Review



# What is Chemical Data Reporting (CDR)?

- Most comprehensive exposure-related source on chemicals in U.S. commerce
- Provides basic screening-level, exposure-related information supporting Toxic Substances Control Act (TSCA) risk evaluation efforts
- The CDR reporting cycle occurs on a **four-year** frequency, specifically, sites that domestically manufacture and/or import certain chemicals on the TSCA Inventory submit CDR reports to the EPA if the reporting threshold during any of the four years in the reporting cycle is triggered.





# Releases to the Environment

- Releases of chemicals to the environment from **conditions of use** are a component of potential exposure
- EPA's **CDR** database tracks production quantities and uses of chemicals
- EPA's **TRI** database tracks quantities of toxic chemicals released from facilities into the environment (i.e., to air, water, and disposed of to land), treated, burned for energy, recycled, or transferred off-site to other facilities for these purposes.





# How does CDR differ from the TRI?

- The **TRI** was established by the Emergency Planning and Community Right-to-Know Act of 1986. The goal of the TRI is to provide the public, EPA, researchers, and many other stakeholders, including industry and covered facilities, with information about toxic chemical waste management, including **releases**.
- The **CDR** was implemented under Section 8 of TSCA. The primary purpose of the CDR is to provide EPA with up-to-date information on the **production and use** of chemicals in commerce.



# CDR & TRI Comparison

## Chemical Data Reporting

- Reporting under TSCA Section 8(a)
- Submitted every 4 years
- Chemical is on the TSCA Inventory (34,000+ active chemicals)
- Chemical manufacturers or importers report amount of chemical manufactured/imported and other production data, regardless of industrial sector
- Downstream or on-site chemical industrial processing and use information
  - Downstream chemical consumer and/or commercial use information
    - 15-20% of information on average is claimed as confidential and not public; most claims are for production volumes

## Toxics Release Inventory

- Reporting under EPCRA Section 313
- Submitted annually
- Chemical is on the TRI list (850+ chemicals and chemical categories)
- Chemical manufacturers, importers, processors, and users in covered industry sectors report to EPA
- Amount and types of chemical waste management on-site and off-site
- Newly implemented pollution prevention techniques
- Identification of all off-site chemical waste management (e.g., disposal, waste treatment) sites
- >99% of data are public

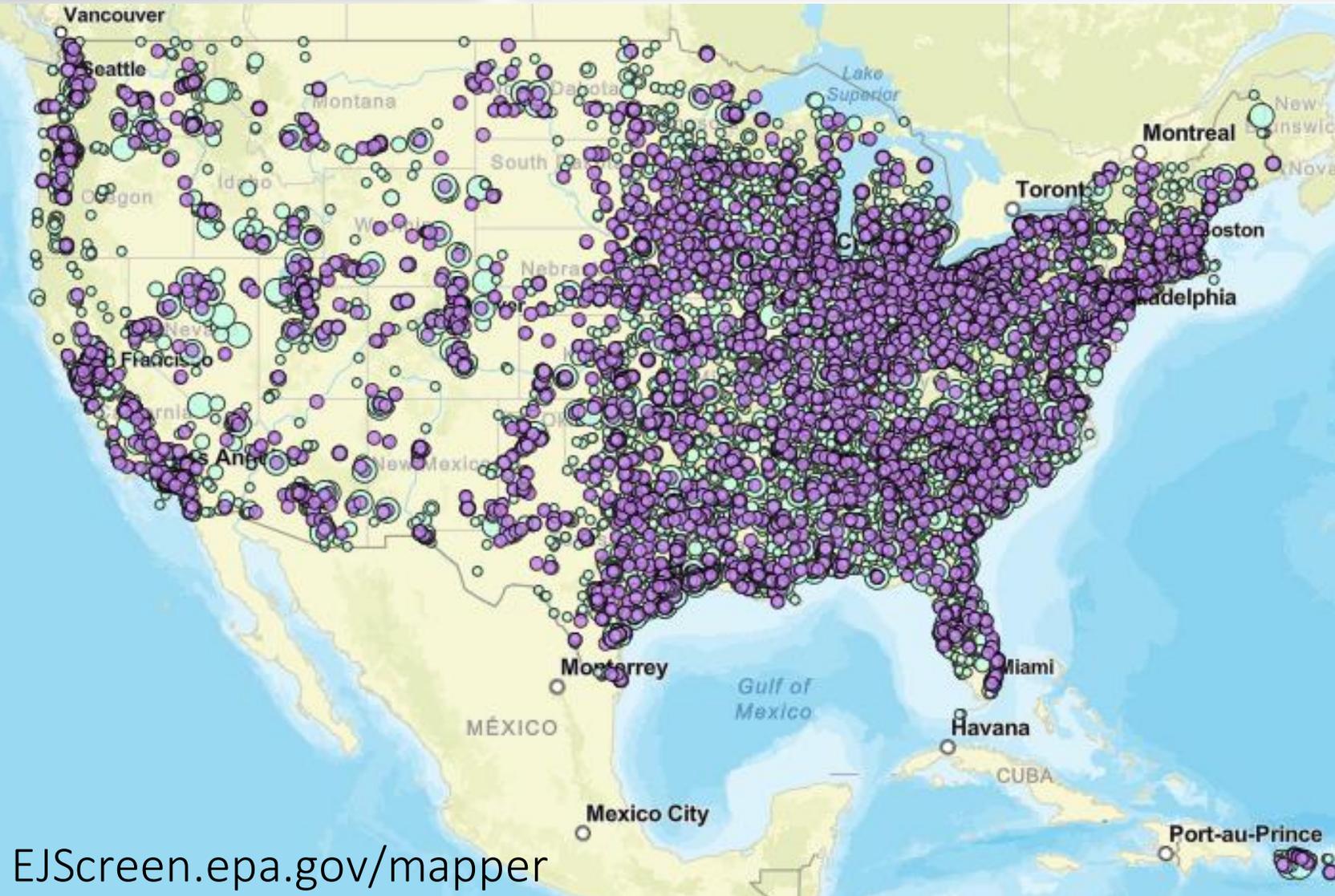
■ 670+ chemicals on both TSCA inventory and TRI list (excludes chemicals in categories)

- Volume thresholds and reporting exemptions
- Site name and location
- Site NAICS
- Site parent company
  - Chemical use type and function



# Mapping CDR & TRI Facilities/Sites

- EPA's Facility Registry Service Identification (FRS ID) can be used to identify sites that report to CDR & TRI
- 2021 TRI: 21,000+ Facilities
- 2020 CDR: 5,500+ Sites



**Map Contents**

<input type="checkbox"/>	<input type="checkbox"/>	<b>EPA Regulated Facilities</b>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Toxics Release Inventory</b>	<input type="checkbox"/>	<input type="checkbox"/>
Total Releases (lb)				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	> 1,000,000 lb	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	50,000 - 1,000,000 lb	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	0 - 49,999 lb	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Chemical Data Reporting (T...</b>	<input type="checkbox"/>	<input type="checkbox"/>



# CDR & TRI Chemical Use Data

- Chemical use data reported under CDR is classified using Industrial Function Category (IFC) codes and/or commercial/consumer use product categories (PCs)
- TRI reporters indicate whether the chemical is manufactured (including imported), processed, or otherwise used at the facility and the general nature of such activities and uses

<b>SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY</b>					
<b>(Important: Check all that apply.)</b>					
<b>3.1</b>	<b>Manufacture the toxic chemical:</b>	<b>3.2</b>	<b>Process the toxic chemical:</b>	<b>3.3</b>	<b>Otherwise use the toxic chemical:</b>
a.	<input type="checkbox"/> Produce	b.	<input type="checkbox"/> Import		
	<b>If Produce or Import</b>	a.	<input type="checkbox"/> As a reactant		
c.	<input type="checkbox"/> For on-site use/processing	b.	<input type="checkbox"/> As a formulation component	<input type="text"/>	<input type="text"/>
d.	<input type="checkbox"/> For sale/distribution	c.	<input type="checkbox"/> As an article component	<input type="text"/>	<input type="text"/>
e.	<input type="checkbox"/> As a byproduct	d.	<input type="checkbox"/> Repackaging	<input type="text"/>	<input type="text"/>
f.	<input type="checkbox"/> As an impurity	e.	<input type="checkbox"/> As an impurity	<input type="text"/>	<input type="text"/>
		f.	<input type="checkbox"/> Recycling	<input type="text"/>	<input type="text"/>

Enter 4-digit code from instruction package



# CDR & TRI Crosswalk of Chemical Use Data

## ➤ TRI Processing – P codes (17) and Otherwise Use – Z codes (22)

➤ Available since 2018

## ➤ Mapped to 2020 CDR Industrial Function Category – IFC codes (117)

➤ Applies to the upcoming 2024 CDR Cycle

2021 TRI				2020 CDR *20 High Priority Chemicals	
TRI Section	Description	Sub-Use Code	Sub-Use Code Name	IFC Code	Category
3.2b	Processing: As a formulation component	P205	Solvent	F075	Solvent
3.2b	Processing: As a formulation component	P207	Emulsifiers	F077	Emulsifier
3.2b	Processing: As a formulation component	P208	Surfactants	F076	Surfactant (surface active agent)
3.2b	Processing: As a formulation component	P210	Flame Retardants	F029	Flame Retardant
3.3b	Otherwise Use: As a manufacturing aid	Z203	Coolants	F032	Heat transferring agent
3.3b	Otherwise Use: As a manufacturing aid	Z205	Hydraulic Fluids	F033	Hydraulic fluids
3.3c	Otherwise Use: Ancillary or other use	Z305	Flame Retardant	F029	Flame retardant

Example 1:1 relationships across 2021 TRI use information and 2020 CDR



# Summary – Using CDR & TRI Data

- Obtain annual TRI release data to complement CDR information collected every 4 years
- Quality assure manufacturing information reported by common facilities in both CDR/TRI
- Gather additional use information from TRI for facilities that process or otherwise use chemicals
- Limited to higher volume facilities
- Chemical overlap for most workplan chemicals (70%)



# 2020 CDR National Review

- The **first-ever web-based, interactive CDR National Review** and will serve as the foundation for future web-based reports
- EPA is advancing *chemical right-to-know* with the publication of the 2020 CDR Review and will continue to make chemical information more accessible and relevant to users in future years.
- CDR National Review demonstration:  
[epa.gov/chemical-data-reporting/2020-cdr-national-review](https://epa.gov/chemical-data-reporting/2020-cdr-national-review)



# Thank you!

- Questions?
- Email: [roach.amanda@epa.gov](mailto:roach.amanda@epa.gov)