

System of Registries (SoR) Integrating Agency Information



John Harman
OEI/OIC/CStD/DSB



Overview

System

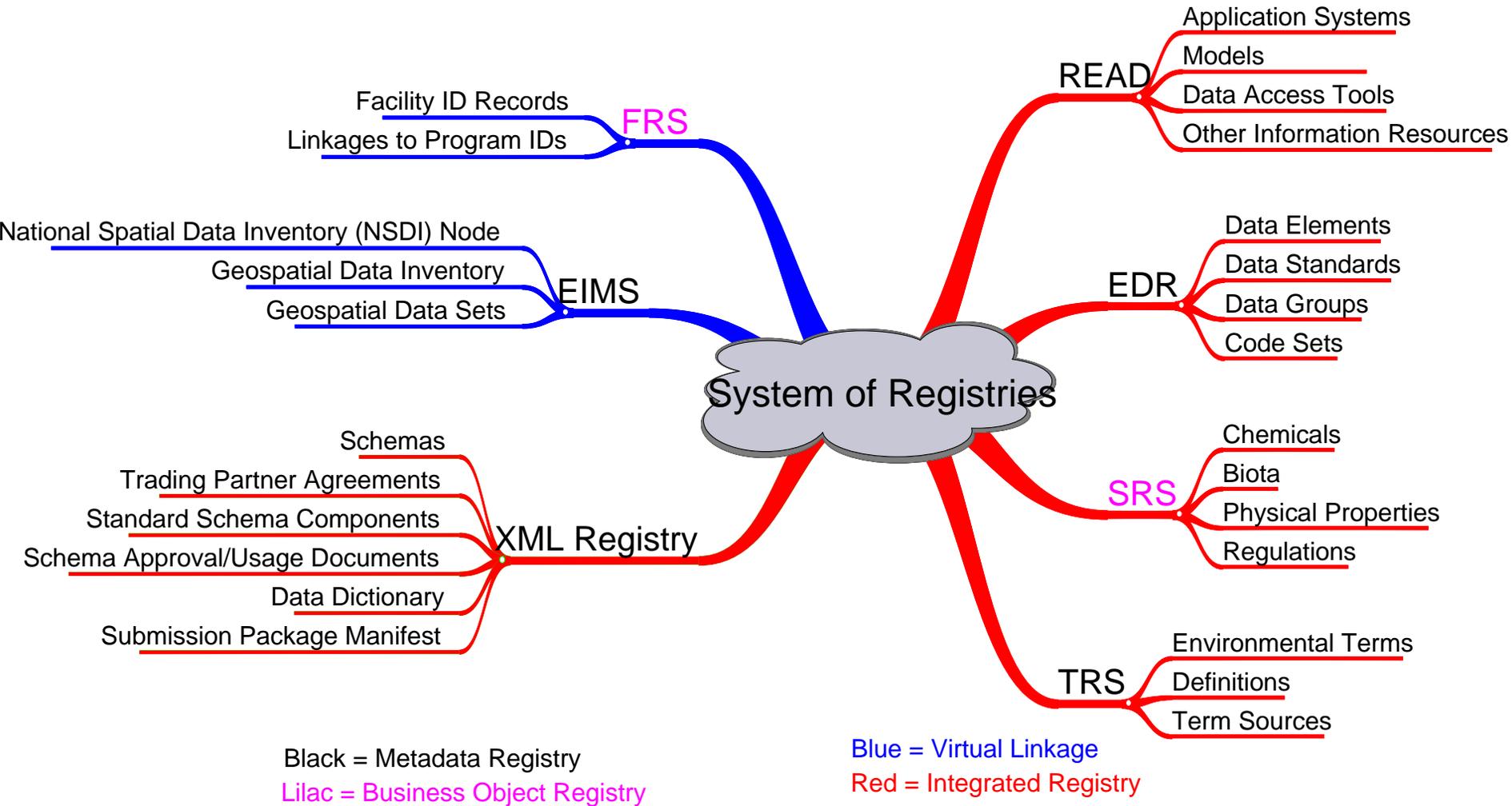
of

Registries

(SoR)

- Overview of the System of Registries
- Meeting the requirements of the Enterprise Architecture and Portal Demonstration Project
 - ◆ Metadata Management
 - ◆ Active Metadata
 - ◆ Enhancing data quality with web services
 - ◆ READ
 - ◆ XML Registry
 - ◆ ETL Tool

System of Registries (SoR)



Registries



Environmental Data Registry (EDR) - Data Standards, XML, and Application Metadata

EDR is a comprehensive, authoritative source of reference information (metadata) about environmental data. The EDR [Search](#) page includes queries for EPA [data standard](#) and application metadata such as data elements, XML tags, and value domains.



Facility Registry System (FRS) - Facility Identification Information

FRS is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. The [FRS Query Form](#) allows users to search for facilities that are in the [Envirofacts Warehouse](#) and through the FRS record to retrieve selected environmental data contained in the national program systems.



Registry of EPA Applications and Databases (READ) - EPA's Application Inventory, Organization Hierarchy, and Other Information Resources

READ is an authoritative source of information about Environmental Protection Agency (EPA) application systems and other information resources. The READ [Search](#) page includes queries for Agency application system, organization, and other information resource metadata.



Substance Registry System (SRS) - Chemicals, Biological Organisms, and Miscellaneous Substances

SRS serves as the nucleus for linking information about substances regulated by the EPA. The SRS [Search](#) page includes queries for substances (such as chemicals, organisms, and physical characteristics) in EPA regulations, data systems, and other information resources.



XML Registry - XML Schemas, Namespaces, and Supporting Files

The interim XML Registry for the [Environmental Information Exchange Network](#) [EXIT disclaimer](#) provides the capability to share information about XML Data Exchange Template (DETs), XML Schemas, Namespaces, WSDL files, and other supporting files needed to map data flows between partners. The Registry will contain information about schemas approved for use on the Network, as well as information about schemas under development. In time, the XML Registry will provide a clearinghouse for information related to data flows on the Network. The data may also be found in the [EDR](#) and [READ](#).



Environmental Information Management System (EIMS) - Data Sets, Models, and Spatial Data

EIMS contains descriptive information (metadata) on scientific data sets, including remote sensing data, Geographical Information System (GIS) coverages, databases, documents, models, and multimedia. EIMS also provides a repository for scientific documentation that can be easily accessed with standard Web browsers to place a virtual library on the desktop of EPA staff and others with Internet access. The EIMS [Search](#) allows query by Information Type, Subject / Keyword, Cross Partner Collection, or EIMS Partner.



Terminology Reference System (TRS) - Environmental Terms and Definitions

TRS provides a single resource of environmental terminology for the EPA by compiling collections of terms from the Agency and other sources. TRS contains collections of environmental terms and definitions from a variety of sources including Agency program offices, information systems, and state collections. The TRS [Search](#) page includes queries for terms and



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U.S. Environmental Protection Agency

Substance Registry System

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Welcome to the Substance Registry System



The Substance Registry System (SRS) provides information on substances and how they are represented in the Environmental Protection Agency (EPA) regulations and information systems.

Using the search below, you can query for substances by common identifiers, names, or alternate identifiers. Additional search capabilities are available on the [Search](#) page.

Type:

Keyword/Identifier:

The search

EPA Identifier (EPA ID)
Taxonomic Serial Number (TSN)
Chemical Abstracts Service (CAS) Registry Number
International Committee on Taxonomy of Viruses (ICTV) Database Identifier
Alternate Identifier

Please read the [SoR Disclaimer](#) for the Substance Registry System. The [Introduction](#) and [Help](#) pages provide information to assist in understanding and using the SRS.

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Start

> Re: national c...

WordPerfect 9 - ...

NEI conference J...

EPA: Substanc...

Internet

5:36 PM



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Acetonitrile



EPA Source Name: [ChemIDStd](#)
Systematic Name: Acetonitrile
Systematic Source Name: [CAS-9C](#)
CAS Number: 75-05-8
Classification: Chemical
Molecular Formula: C₂H₃N
Molecular Weight: 41.05

Other Numbers

54841-72-4 (CAS Registry **Former CAS Number**)

Synonyms

Name
Acetonitrile
Ethanenitrile
Methyl cyanide
Methyl cyanide (acetonitrile)



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Hazardous Air Pollutants



Acronym: CAA 112B

Regulation The Clean Air Act (CAA) Section 112(b)(1) lists pollutants that are judged to be hazardous if emitted into the air. The

Abstract: statute calls for the identification of source categories that emit these hazardous air pollutants, and the subsequent promotion of technology-based emission standards requiring compliance with maximum achievable control technology. The effective date for each of the listed emissions varies according to a number of factors; consult the Code of Federal Regulations (CFR) for details.

Associated Substances

The following is a count of unique substances associated with this information resource.

- Chemical: 188
- Total: 188

The substance list can be limited by classification. Select the sort order for display of substance names from this source by clicking the radio button. Substances can be sorted by the substance name, by the CAS Number, by the order the substance names appear in the regulation, or by the withdrawn date. The search results list will include all the substance names given in the information resource, including synonyms.

Classification:

Sort Options: Substance Name CAS Number Regulation Order Withdrawn Date

Begin Search

Clear and Start Over



Name	Classification	CAS Number	TSN	ICTV	EPA ID	Status	Comment	Alternate ID	Reason for Regulation	Effective Date	Withdrawn Date	Compar
Acetaldehyde	Chemical	75-07-0							Congressional Mandate			<input type="checkbox"/>
Acetamide	Chemical	60-35-5							Congressional Mandate			<input type="checkbox"/>
Acetonitrile	Chemical	75-05-8							Congressional Mandate			<input type="checkbox"/>
Acetophenone	Chemical	98-86-2							Congressional Mandate			<input type="checkbox"/>
2-Acetylaminofluorene	Chemical	53-96-3							Congressional Mandate			<input type="checkbox"/>
Acrolein	Chemical	107-02-8							Congressional Mandate			<input type="checkbox"/>
Acrylamide	Chemical	79-06-1							Congressional Mandate			<input type="checkbox"/>
Acrylic acid	Chemical	79-10-7							Congressional Mandate			<input type="checkbox"/>
Acrylonitrile	Chemical	107-13-1							Congressional Mandate			<input type="checkbox"/>
Allylchloride	Chemical	107-05-1							Congressional Mandate			<input type="checkbox"/>
4-Aminobiphenyl	Chemical	92-67-1							Congressional Mandate			<input type="checkbox"/>
Aniline	Chemical	62-53-3							Congressional Mandate			<input type="checkbox"/>
n-Anilidine	Chemical	90-04-0							Congressional			<input type="checkbox"/>



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Welcome to the Registry of EPA Applications and Databases

The Registry of EPA Applications and Databases (READ) is an authoritative registry that uniquely identifies the Environmental Protection Agency's (EPA) diverse information resources including computer application systems, Web sites, databases, models, and data sets. As a catalog of available EPA information, READ provides a single point of entry to identify, locate, and access Agency information resources. READ supports EPA's metadata vision to: create and store metadata in as few places as possible; improve the quality and consistency of metadata; and provide a central point of access to the complete collection of all Agency information resources metadata.

READ currently has basic metadata for some, but not all, EPA data systems. The information is being expanded to support the requirements of the application inventory. To demonstrate the application inventory functions, four fully populated data system records have been completed in READ. The complete records are the Risk Management Plans Information (RMP*Info), Storage and Retrieval for Water Quality Data (STORET), Safe Drinking Water Information System/Federal Version (SDWIS/FED), and the Environmental Data Registry (EDR). An effort is underway to populate the database with information about all EPA application systems.

READ [Search](#) provides the ability to query information by data system, information resources, Agency organizations, and contact persons.

Click on a letter/number below to retrieve a list of data systems beginning with that letter/number.

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [0](#)

Enter keyword (e.g., air) or text string (e.g., Clean Air Act) in keyword field. The search will query all text fields (e.g., name, acronym, abstract, etc.) and results will be limited to data systems.

Keyword:

Search Options: Containing Beginning With Exact Match



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National Emissions Inventory



General: [Detailed Report:](#) [View](#)

Acronym: NEI

Description: The Emission Factors and Inventory Group (EFIG) of the EPA maintains a National Emission Inventory (NEI) that characterizes emissions of criteria and hazardous air pollutants. Criteria air pollutants are those which an ambient standard, objective, or guideline has been established to protect human health and welfare.

National ambient standards are in place for ozone, carbon monoxide, nitrogen oxides, sulfur oxides, lead, and fine particulate matter. Hazardous air pollutants (HAPS) are defined in Section 112(b) of the 1990 Clean Air Act Amendments.

The NEI is a system for standardizing and accepting State/Local/Tribal air emission inventory information through Central Data Exchange (CDX), merging it with other information to fill gaps and/or substitute higher quality data, hold the data in an Oracle platform, and output it in several formats and through several existing channels using existing infrastructure to meet various needs of users.

Resource 01/01/97

Effective Date:

Change Date: 01/29/04

Submitter: [EPA/OAR/OAQPS/EMAD/Emission Factor & Inventory Group](#)

CPIC Preparer: [David Misenheimer](#) [Emissions, Monitoring, and Analysis Division RTP, NC](#)

Components: [Chemicals, Miscellaneous Objects](#) (SRS)



Name	Classification	CAS Number	TSN	ICTV	EPA ID	Status	Comment	Alternate ID	Reason for Regulation	Effective Date	Withdrawn Date	Compar
Acetaldehyde	Chemical	75-07-0							Congressional Mandate			<input type="checkbox"/>
Acetamide	Chemical	60-35-5							Congressional Mandate			<input type="checkbox"/>
Acetonitrile	Chemical	75-05-8							Congressional Mandate			<input type="checkbox"/>
Acetophenone	Chemical	98-86-2							Congressional Mandate			<input type="checkbox"/>
2-Acetylaminofluorene	Chemical	53-96-3							Congressional Mandate			<input type="checkbox"/>
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Acrylic acid	Chemical	79-10-7							Congressional Mandate			<input type="checkbox"/>
Acrylonitrile	Chemical	107-13-1							Congressional Mandate			<input type="checkbox"/>
Allylchloride	Chemical	107-05-1							Congressional Mandate			<input type="checkbox"/>
4-Aminobiphenyl	Chemical	92-67-1							Congressional Mandate			<input type="checkbox"/>
Aniline	Chemical	62-53-3							Congressional Mandate			<input type="checkbox"/>
n-Anilidine	Chemical	90-04-0							Congressional			<input type="checkbox"/>

System of Registries (SoR)

System

of

Registries

(SoR)

- Authoritative source of metadata of broad concern to the Agency.
- A suite of tools to make data more useful, meaningful and understandable
 - ◆ For discovery of Agency resources
 - ◆ For data integration across the Agency
 - ◆ For data exchange across the Network

System of Registries (SoR) – cont'd

System

of

Registries

(SoR)

- Uses standards-based, reusable, component technology
 - ◆ Based on ISO 11179
 - ◆ Creating tools that States and EPA Program offices can utilize
- Reduces costs to the Agency and States for systems development and management
 - ◆ Improved data quality
 - ◆ Increased data integration

Metadata Management

System

of

Registries

(SoR)

- **Description:** Provides a disciplined way to communicate and share knowledge and show relationships
 - ◆ How we enable humans and computers to accurately use, understand and discover data and information
 - ◆ Two aspects of metadata management
 - Semantics - meaning of data/elements
 - Ontologies, logical data models, ISO11179 metadata repository
 - Structure - human readable or machine readable
 - Database entity relationship diagrams, data element dictionaries, physical data models, ETL metadata repository

Metadata Management – cont'd

System

of

Registries

(SoR)

- **Examples:**

- ◆ EPA uses SoR to map common data, data elements, between EPA program systems
- ◆ SoR stores and makes accessible to EPA staff, trading partners, public, the Agency's data dictionaries, standardized data elements, common data (e.g., chemicals, facilities, XML tags/schema)

- **Customer:** EPA, Public

- **Status:** Ongoing

- **Portal:** Metadata and data in SoR are the glue that makes it possible to connect and integrate Agency information

Active Metadata

System

of

Registries

(SoR)

- **Description:** Providing metadata about facilities, chemicals, biologicals, data elements, applications to program data
 - ◆ Providing access to authoritative information about Agency data
 - ◆ Creating record to record linkages between program systems and SoR
- **Examples:** Incorporating active metadata into new information systems
 - ◆ Radiation Information System of Cleanup Sites (RISCS)
 - Built on data standards
 - Relies on FRS, SRS and soon, EDR for metadata

Active Metadata – cont'd

System

of

Registries

(SoR)

- **Examples:** Incorporating active metadata into existing systems
 - ◆ Toxic Substances Control Act Test Submissions (TSCATS)
 - From SRS, user can access test submission data
 - From TSCATS, user can access SRS metadata
- **Customer:** OAR, OPPT, ORD
- **Status:** Launch 4/04
- **Portal:** Integrating data across the Agency
 - ◆ SoR provides a single version of the truth for Agency metadata
 - ◆ Objective of the Target Architecture



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 - MARSSIM
 - MARLAP

Facility Location Search



To find a facility by Site Name, FRS Number, EPA Region, Site Address, or related Organization, use the following query section.

Site Name

Search Options Containing Beginning With Exact Match

Facility Registry Identifier

Search Options Containing Beginning With Exact Match

Federal Agency?

Tribal Land

Select a state by abbreviation or a region by number to see a list of facilities for the selected state or region. (A text search for state or region may also be done in the section following the map graphic.)



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 - [Yucca Mtn. Standards](#)
 - [Mixed Waste](#)
 - [Federal Guidance](#)
 - [Naturally Occurring Radioactive Materials](#)
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 - [MARLAP](#)
 - [Cleanup: Technologies & Tools](#)



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- Information
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- Programs
- Visitors' Center
- Site Map

Facility



Dalzell Viking Glass Company

Federal Agency? No
EPA Region 3
Congressional District 1
Latitude Measure +39.651034
Longitude Measure -80.859529

Address 802 Parkway Drive
 Wetzel County
 New Martinsville, West Virginia USA
 26155 (Location)

Contact/Organization

The following list details contact/organization information related to the facility listed above. For more detailed information select an organization or name.

Organization	Name	Affiliation Type
Environmental Protection Agency	Robert Braster	Government Contact
Environmental Protection Agency	Sheri Minnick	Government Contact

Bibliographic Reference

- ### Programs
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 - [Mixed Waste](#)
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 - [Naturally Occurring Radioactive Materials](#)
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 - [Cleanup Technologies & Tools](#)

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1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-



EPA Source Name: [ChemIDStd](#)
Systematic Name: 1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-
Systematic Source Name: [CAS-9CI](#)
CAS Number: 77-85-0
Classification: Chemical
Molecular Formula: C5H12O3
Molecular Weight: 120.15

Other Numbers

None

Synonyms

Name
1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-

Regulatory Resources

This section provides a list of regulations applicable to this chemical and other regulatory information such as chemical name listed in the regulation, name status, comments, regulation acronym, the regulation identifier, reason for the regulation, effective date, and withdrawn date.

Acronym	Name	Status	Alternate ID	Reason for Regulation	Effective Date	End Date	Comment

Record Type	CAS Number	Chemical Name	Study Title	Study Type	Submitting Company
Full Record	10042-84-9	Nitrioltriacetate, Sodium	INITIAL SUBMISSION: PRELIMINARY TOXICITY TESTS OF SODIUM NITRILOTRIACETATE, SODIUM TARTRATE, TARTARIC ACID, METHYLTRIMETHYLOLMETHANE, * WITH COVER LETTER DATED 10/15/92	Dermal Irritation	E. I. DUPONT DE NEMOURS AND COMPANY
Full Record	868-18-8	Tartrate, Sodium	INITIAL SUBMISSION: PRELIMINARY TOXICITY TESTS OF SODIUM NITRILOTRIACETATE, SODIUM TARTRATE, TARTARIC ACID, METHYLTRIMETHYLOLMETHANE, * WITH COVER LETTER DATED 10/15/92	Dermal Irritation	E. I. DUPONT DE NEMOURS AND COMPANY
Full Record	87-69-4	Tartaric Acid	INITIAL SUBMISSION: PRELIMINARY TOXICITY TESTS OF SODIUM NITRILOTRIACETATE, SODIUM TARTRATE, TARTARIC ACID, METHYLTRIMETHYLOLMETHANE, * WITH COVER LETTER DATED 10/15/92	Dermal Irritation	E. I. DUPONT DE NEMOURS AND COMPANY
Full Record	139-13-9	Triacetic Acid, Nitrogen	INITIAL SUBMISSION: PRELIMINARY TOXICITY TESTS OF SODIUM NITRILOTRIACETATE, SODIUM TARTRATE, TARTARIC ACID, METHYLTRIMETHYLOLMETHANE, * WITH COVER LETTER DATED 10/15/92	Dermal Irritation	E. I. DUPONT DE NEMOURS AND COMPANY
Full Record	77-85-0	METHYLTRIMETHYLOLMETHANE	INITIAL SUBMISSION: PRELIMINARY TOXICITY TESTS OF SODIUM NITRILOTRIACETATE, SODIUM TARTRATE, TARTARIC ACID, METHYLTRIMETHYLOLMETHANE, * WITH COVER LETTER DATED 10/15/92	Dermal Irritation	E. I. DUPONT DE NEMOURS AND COMPANY

NOTE: Peter provides data entry in CBITS for the 8(e) CAP Documents.

8EHQ-1092-12330



Contains No CBI

LEGAL
Wilmington, Delaware 10898

92 OCT 27 PM 2:56
21
INIT 18/27/92

October 15, 1992

**Certified Mail
Return Receipt Requested**

Document Processing Center (TS-790)
Office of Pollution Prevention and Toxics
Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460
Attn: Section 8(e) Coordinator (CAP Agreement)

Dear Coordinator:

RECAP-0025

On behalf of the Regulatee and pursuant to Unit II B.1.b. and Unit II C of the 6/28/91 CAP Agreement, E.I. Du Pont de Nemours and Co. hereby attests (as triplicate) the attached studies. Submission of this information is voluntary and is occasioned by unilateral changes in EPA's standard as to what EPA now considers as reportable information. Regulatee's submission of information is made solely in response to the new EPA 8(e) reporting standards and is not an admission: (1) of TSCA violation or liability; (2) that Regulatee's activities with the study compounds reasonably support a conclusion of substantial health or environmental risk or (3) that the studies themselves reasonably support a conclusion of substantial health or environmental risk.

The "Reporting Guide" creates new TSCA 8(e) reporting criteria which were not previously announced by EPA in its 1978 Statement of Interpretation and Enforcement Policy, 43 Fed Reg 11110 (March 16, 1978). The "Reporting Guide" states criteria which expands upon and conflicts with the 1978 Statement of Interpretation. Absent amendment of the Statement of Interpretation, the informal issuance of the "Reporting Guide" raises significant due process issues and clouds the appropriate reporting standard by which regulated persons can assure TSCA Section 8(e) compliance.

For Regulatee,

MIKE H. CHRISTIAN
Counsel
Legal D-7158
1007 Market Street
Wilmington, DE 10808



Edit Document Exit Expand All Collapse All

II. Chemical Information

II.1 Composition

- Single Chemical(s)
- Commercial/Technical Grade Substance
- Mixture/Article
- Not Specified

II.2 CASRN

77-85-0
[Substance Registry System](#)

II.3 TSCA Inventory Chemical Name

1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-

II.4 Synonyms, etc from the Submitter

1.	METHYLTRIMETHYLOLMETHANE	2.	
3.		4.	

II.5 Structural Formula

II.6 Percent Purity

0%

II.7 Chemical in Test Mixture or Technical Grade Substance (Including Impurities and By-Products), or Additional Discrete Chemical: (Each Entry is a separate field, a-d is repeating up to a maximum of 10 occurrences).

C. Submitter Provided



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1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-



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Systematic Source Name: [CAS-9CI](#)
CAS Number: 77-85-0
Classification: Chemical
Molecular Formula: C5H12O3
Molecular Weight: 120.15

Other Numbers

None

Synonyms

Name

Web Services

System

of

Registries

(SoR)

- **Description:** Web services will allow EPA trading partners to exchange data with SoR
 - ◆ Fosters standardization of data between EPA and trading partners
- **Examples:** Working with group of states develop web services to SRS
 - ◆ Verify information on individual substances
 - Obtaining CAS name, EPA Preferred Name, molecular formula
 - ◆ Synchronize State information with lists of program-specific chemicals
 - Keeping current with programmatic substance lists (e.g., TRI, AQS)

Web Services – cont'd

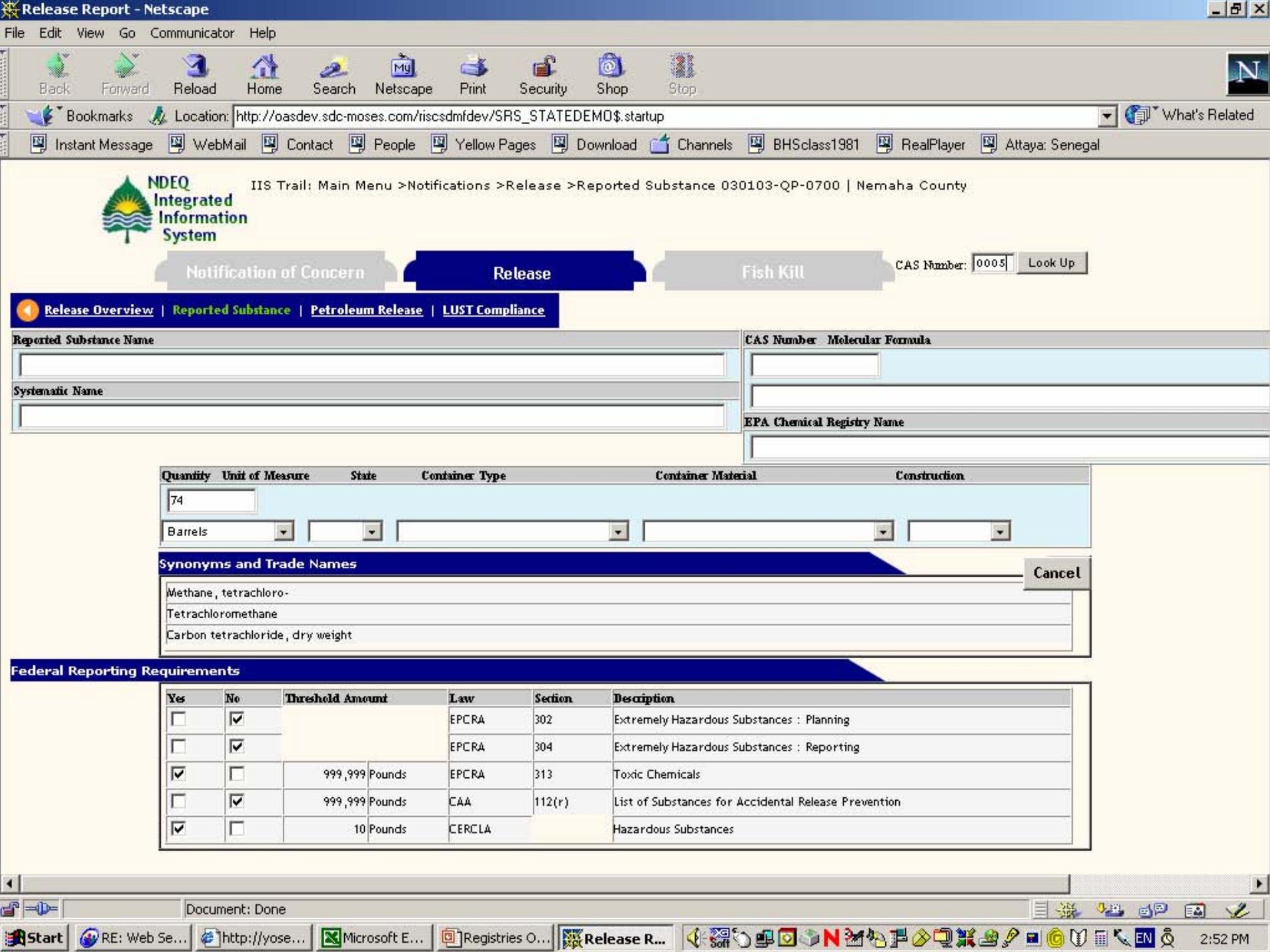
System

of

Registries

(SoR)

- **Customers:** Delaware, Nebraska, Oregon
- **Status:** Launch 4/04
- **Portal:** Improving data quality before data is submitted by trading partners
 - ◆ Reducing data quality costs to program offices
 - ◆ Rely on CDX to transmit requests and resultant data between trading partners and SoR



IIS Trail: Main Menu > Notifications > Release > Reported Substance 030103-QP-0700 | Nemaha County

Notification of Concern | **Release** | Fish Kill CAS Number: Look Up

Release Overview | **Reported Substance** | Petroleum Release | LUST Compliance

Reported Substance Name

Systematic Name

CAS Number Molecular Formula

EPA Chemical Registry Name

Quantity	Unit of Measure	State	Container Type	Container Material	Construction
<input type="text" value="74"/>	Barrels				

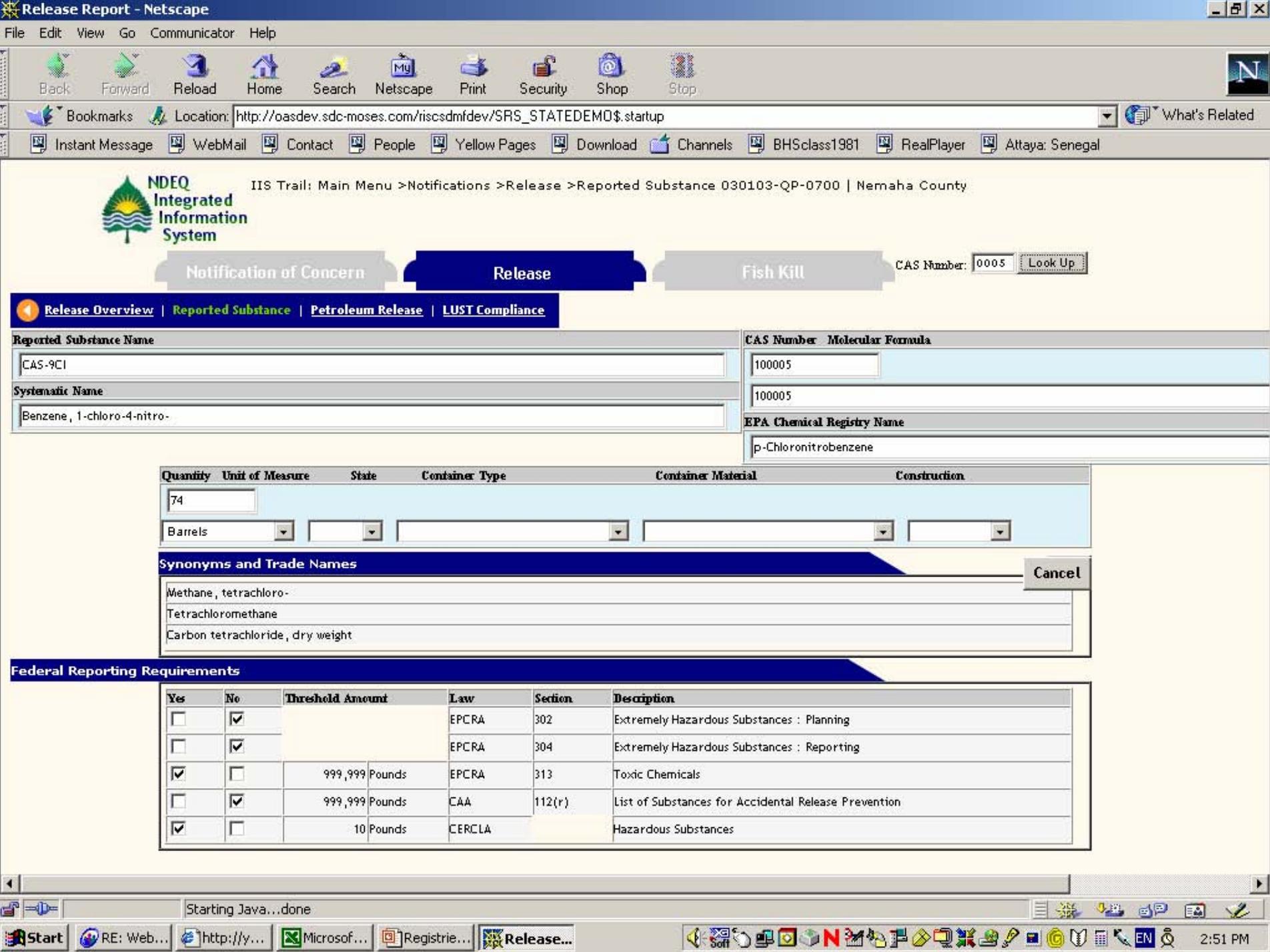
Synonyms and Trade Names

Methane, tetrachloro-
Tetrachloromethane
Carbon tetrachloride, dry weight

Cancel

Federal Reporting Requirements

Yes	No	Threshold Amount	Law	Section	Description
<input type="checkbox"/>	<input checked="" type="checkbox"/>		EPCRA	302	Extremely Hazardous Substances : Planning
<input type="checkbox"/>	<input checked="" type="checkbox"/>		EPCRA	304	Extremely Hazardous Substances : Reporting
<input checked="" type="checkbox"/>	<input type="checkbox"/>	999,999 Pounds	EPCRA	313	Toxic Chemicals
<input type="checkbox"/>	<input checked="" type="checkbox"/>	999,999 Pounds	CAA	112(r)	List of Substances for Accidental Release Prevention
<input checked="" type="checkbox"/>	<input type="checkbox"/>	10 Pounds	CERCLA		Hazardous Substances



Reported Substance Name: CAS-9CI
Systematic Name: Benzene, 1-chloro-4-nitro-

CAS Number: 100005
Molecular Formula: 100005
EPA Chemical Registry Name: p-Chloronitrobenzene

Quantity	Unit of Measure	State	Container Type	Container Material	Construction
74	Barrels				

Synonyms and Trade Names
Methane, tetrachloro-
Tetrachloromethane
Carbon tetrachloride, dry weight

Federal Reporting Requirements

Yes	No	Threshold Amount	Law	Section	Description
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<input type="checkbox"/>	<input checked="" type="checkbox"/>		EPCRA	304	Extremely Hazardous Substances : Reporting
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	10 Pounds	CERCLA		Hazardous Substances

Registry of EPA Applications and Databases (READ)

System

of

Registries

(SoR)

- **Description:** Authoritative source for cataloguing and keeping current metadata about information systems (e.g., applications, models)
 - ◆ Supports FISMA, Paperwork Reduction Act, Clinger-Cohen, OMB-A130, OMB-A11
- **Examples:** Working with Regional Knowledge Forum to foster information flow among regions
 - ◆ Additional data fields for identifying GIS mapping tools
 - ◆ Remote access for convenient data stewardship
 - ◆ Intranet version for storing records for sensitive information systems

Registry of EPA Applications and Databases (READ) – cont'd

System

of

Registries

(SoR)

- **Customer:** Public, OMB
- **Status:** Operational
- **Portal:** Interact with portal to provide list of Agency information systems
 - ◆ Will allow discovery of relevant applications (e.g., systems to geographically array AQS data)
 - ◆ Will need to work closely with portal to understand any changes necessary for READ
 - ◆ Objective of Target Architecture



Registry of EPA Applications and Databases

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Storage and Retrieval for Water Quality Data



General: **Acronym:** STORET

Resource 1.1

Version:

Description: EPA's STORAGE and RETrieval (STORET) system is a packaged system containing software and a complex database structure that can be used to manage data produced by organizations monitoring the water quality and biological health of the environment. STORET is provided at no charge by EPA to interested organizations for their use in managing their environmental data, and to assist them in sharing their environmental data with EPA, and in consequence, with the public. EPA's Office of Water receives databases from these users on an irregular schedule, and merges the databases into the single official STORET Warehouse, which is a repository for national ambient water quality and biological monitoring data. As of July 2003, the STORET Warehouse has reports of 14 million monitoring results representing 950,000 site visits to 125,000 stations. For further information, visit the STORET web site at <http://www.epa.gov/storet>.

Purpose: STORET is a cornerstone for the Office of Water's strategy to "improve and increase monitoring to support information-based environmental protection."

Resource 06/01/96

Effective

Date:

Physical Research Triangle Park

Location:

Access CD (local PC) or EPA Internet

Method:

Keyword: STORET, ambient monitoring, RCRA, TSCA, water sampling, trend analysis

Application Type **Resource Type:** National
and Status: **Customer:** Public

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- Data Owner's Corner
- Updates/Downloads
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- Useful Internet Links
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STORET

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Welcome to STORET, EPA's largest computerized environmental data system.

STORET (short for STOrage and RETrieval) is a repository for water quality, biological, and physical data and is used by state environmental agencies, EPA and other federal agencies, universities, private citizens, and many others. Take a minute to browse around our site or click on the water drop to retrieve monitoring data!



Features

- [STORET v2.0](#)
- [Download SIM](#)
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[About STORET](#) | [Data Owner's Corner](#) | [Updates and Downloads](#) | [Obtaining Water Quality Data](#) | [Useful Links](#) | [Commonly Asked Questions](#)

Comments? If you have a question or comments on this website or on the STORET system, please call STORET User Assistance at 1-800-424-9067, or send us an email at STORET@epa.gov.

XML Registry

System

of

Registries

(SoR)

- **Description:** Exchange Network relies on the XML Registry as the authoritative source for accessing and maintaining XML schema
 - ◆ implements a common language (XML) and provides components and “approved” schema that can be reused.
 - ◆ SoR serves as the search engine and repository for supporting documentation

XML Registry cont'd

System

of

Registries

(SoR)

- **Examples:** Wisconsin submitted XML schema that was not conformant with the accepted schema
 - ◆ EPA expended resources to correct mistake
- **Customers:** Exchange Network Partners (States, Tribes, EPA National Programs)
- **Status:** Operational
- **Portal:** CDX will rely on XML Registry to validate incoming schema from trading partners

Environmental Information
exchange
Network

HOME
WHAT IS IT?
GOVERNANCE
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TOOL BOX
NEWS
PROGRESS
REGISTRY
NSB PRIVATE
RESOURCES
RELATED LINKS
CHALLENGE GRANTS

SEARCH



XML Registry

Welcome to the interim XML Registry for the Environmental Information Exchange Network. This Registry provides the capability to share information about XML Data Exchange Template (DETs), XML Schemas, Namespaces, WSDL files, and other supporting files needed to map data flows between partners. The Registry contains information about schemas approved for use on the Network, as well as information about schemas under development. The XML Registry provides a clearinghouse for information related to data flows on the Network.

Data Submission

Registration of new schema information in the interim XML Registry can be done using a Microsoft Excel spreadsheet data template. Below is the draft data input template and an example template populated with FRS schema data.

- [Draft Data Template \(.xls\)](#)
- [Data Template with Example FRS Schema Data \(.xls\)](#)

To submit new information please contact: Tim Crawford via email at crawford.tim@epa.gov or by phone at 202-566-1652.

XML Object Search

ETL Tool

System

of

Registries

(SoR)

- **Description:** SoR will feed Enterprise-level data and metadata to the ETL tool
 - ◆ To map (extract, transform) between data from different systems
 - Chemicals, biologicals, facilities, data elements
 - ◆ To load data from the different systems into the warehouses and into the data marts
- **Portal:** Registries will need to provide data in a format that meets the ETL specifications

Terminology Reference System

System

of

Registries

(SoR)

- **Description:** Houses thesauri, vocabularies and definitions for various international and cross-agency efforts
- **Examples:** GEMET, ENVOC, Browse by Topics
- **Customers:** OIAA, EPA libraries, public and trading partners
- **Status:** Under development
- **Portal:** PMO will need a taxonomy to access all the information in the portal