RTECS®: Registry of Toxic Effects of Chemical Substances

Date revised: 28 February 2020

The Registry of Toxic Effects of Chemical Substances (RTECS®) is a comprehensive database of basic toxicity information for over 190,000 chemical substances including: prescription and non-prescription drugs, food additives, pesticides, fungicides, herbicides, solvents, diluents, chemical wastes, reaction products of chemical waste, and substances used in both industrial and household situations. Reports of the toxic effects of each compound are cited. In addition to toxic effects and general toxicology reviews, data on skin and/or eye irritation, mutation, reproductive consequences and tumorigenicity are provided. Federal standards and regulations, NIOSH recommended exposure limits and information on the activities of the EPA, NIOSH, NTP, and OSHA regarding the substance are also included. The toxic effects are linked to literature citations from both published and unpublished government reports, and published articles from the scientific literature.

RTECS Includes the following subjects:

- Chemical identity and class
- Acute toxicity
- In vitro toxicity
- Irritation data
- Mutation data
- NIOSH criteria documents

- NTP, NIOSH, and EPA status
- Reproductive effects data
- Standards and regulations
- Toxicology reviews
- Tumorigenic effects data
- Other multiple dose toxicity data

Use RTECS to answer such questions as:

- What are the reproductive effects of chitosan?
- What mutations in humans are created by hydrogen peroxide, 90%?
- What changes in the rat are noted with multiple dose toxicity of the phytosome form of silymarin?

Date Coverage
1979-present

Update Frequency
Quarterly

Geographic Coverage
International

Document Types
Government documents

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Publisher

Dassault Systèmes, BIOVIA Corp.
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Sample document

Registry of Toxic Effects of Chemical Substances (RTECS®)

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TI **Toluene-2,3-diamine, mixed with toluene-3,4-diamine (2:3)**
PUB The Registry of Toxic Effects of Chemical Substances. (Sep 2000).

Highlighting: Off | Single | Multi

FT, TX ⊟ **Full Text** Translate
Reproductive Effects

Name	Value	Units	Target Species	Route Of Administration	Reference	Biological Response
TDLo	3	gm/kg (6-15D preg)	rat	Oral	TXAPA9 71,323,1983	Fetotoxicity (except fetal death)
TDLo	1	gm/kg (6-15D preg)	rat	Oral	TXAPA9 71,323,1983	Musculoskeletal system
TDLo	3	gm/kg (6-15D preg)	rat	Oral	NTIS** OTS0535313	Other effects
TDLo	1300	mg/kg (6-18D preg)	rabbit	Oral	TXAPA9 71,323,1983	Post-implantation mortality (e.g., dead and/or reabsorbed implants per total number of implants)
TDLo	1300	mg/kg (6-18D preg)	rat	Oral	NTIS** OTS0535327	Other effects

TXAPA9 - Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1959-

NTIS** - National Technical Information Service. (Springfield, VA 22161) Formerly U.S. Clearinghouse for Scientific & Technical Information.

Word count: **77**
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⊟ Indexing (details) 📄 Cite

Search fields

Field Name	Field Code	Example	Description and Notes
Accession number	AN	an(UU8815756)	A unique document identification number assigned by the information provider.
All fields + text	--	salmonella NEAR/6 mutation	Searches all fields in including the full text
CAS® Registry Number	RN	rn(50-99-7)	Also searchable using the Substance field code (SUBST),
Classification	CC	cc(tumorigen)	A short list of broad terms describing the type of substance
Copyright	CY	cy(Accelrys)	
Document title			See Title
Document type	DTYPE	dtype("government & official document"")	The same in all documents in RTECS
First available	FAV	fav(20181019) fav(>20131231) fav(20140101-20140630)	Indicates the first time a document was loaded in RTECS. It will not change regardless of how many times the record is subsequently reloaded, as long as the accession number does not change.
From database[1]	FDB	hamster and fdb(rtecs) salmonella and fdb(1008290)	Useful in multi-file searches to isolate records from a single file. FDB cannot be searched on its own; specify at least one search term then AND it with FDB.
Full text	TX	tx(hallucinations and toluene)	Searches all the tables, notes and references of the full text
Language	LA	la(English)	All entries in RTECS are in English
Molecular formula	MF	mf("O4-S.Zn")	Not available in every document
Publication date	PD	pd(20180901) pd(>20140630)	
Publication title	PUB	pub("the registry of toxic effects of chemical substances")	The same in all documents in RTECS
Publication type	PT, STYPE	pt("government & official publications")	The same in all documents in RTECS
Publication year	YR, PY	yr(2018) yr(>2017) yr(2017-2018)	Single year or a range of years may be searched. Displays in Publication date.
Subject	SU	su("reproductive effects") su(mutagen)	SU searches Subject and Classification (but not Substance) terms
Synonyms	SYN	syn("white vitriol")	Synonyms of the substance name in SUBST. Not available in every document
Title	TI	ti(crotonaldehyde)	Includes Title and Subtitle but not Publication Title (PUB).
Title only	TIO	tio("toluene 2,4,6-trinitro")	Searches only the Title, not Subtitle
Updates	UD	ud(20181019)	The date(s) the record was loaded as a result of an update provided by the supplier
Wiswesser line notation		"ZN S-O4:"	Not available in every document. Searchable only. No field code.

1. Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

Search tools

Field codes are used to search document fields, as shown in the sample document. Field codes may be used in searches entered on the **Basic Search**, **Advanced Search**, and **Command Line** search pages. **Limit options** and **"Narrow results by"** filters tools are available for searching. Some data can be searched using more than one tool.

Limit options

Date limiters are available in which you can select single dates or ranges for date of **publication** and **updated**.

"Narrow Results By" filters

When results of a search are presented, the results display is accompanied by a list of "Narrow results by" options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to ("narrow") your search results. Narrow results by filters in this database include:

Classification, Publication date.

Document formats

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Document Format	Fields	Online	Export / Download
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Detailed view	Same as Brief view plus a 3-line KWIC window.	✓	
KWIC (Keyword in Context)	Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur.	✓	✓
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