

## CHEMTOX® Online

### FILE DESCRIPTION

The **CHEMTOX® Online** database is a collection of environmental, health, and safety data for chemical substances that have properties that either cause them to be addressed by legislation or regulation, or make them potential candidates for legislation or regulation. Currently, CHEMTOX includes information on chemicals identified and regulated by the U.S. Environmental Protection Agency (EPA) under regulations such as the Resource Conservation and Recovery Act (RCRA), the Clean Air Act (CAA), the Clean Water Act (CWA), the Toxic Substances Control Act (TSCA), Superfund Amendments and Reauthorization Act (SARA), and Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA); the U.S. Department of Transportation (DOT) under the Hazardous Materials Transport Act; and the U.S. Occupational Safety and Health Administration (OSHA) under the Occupational Safety and Health Act. In addition, chemicals listed by the U.S. National Institute for Occupational Safety and Health (NIOSH) as workplace safety hazards and chemicals in the NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) are included in CHEMTOX. Various lists of chemicals maintained by various agencies and governments are included in the CHEMTOX database. These lists include the carcinogens listed by the U.S. National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), and state lists provided by New Jersey, Pennsylvania, and California (Proposition 65). Chemicals listed under Canada's Workplace Hazardous Materials Information System (WHMIS) are also included in CHEMTOX.

### SUBJECT COVERAGE

All common identifiers such as name, synonyms, CAS® Registry Number, molecular formula, molecular weight, Wiswesser Line Notation, RTECS, RCRA, and DOT identification numbers, and Standard Tariff Commodity Code (STCC) are included for almost every chemical in the CHEMTOX database. Physical and chemical data such as melting point, flash point, auto-ignition temperature, explosive limits, water solubility, reactivity, volatility, reaction products in a fire situation, and physical description are included.

Physiological properties such as odor description, toxicity to humans and test animals, mutagenicity, teratogenicity, and carcinogenicity are included. The regulatory status of each chemical is included. When applicable, the common shipping name, hazard class, packing group, DOT identification number, and Emergency Response Guide (DOT ERG90) information for a chemical is given.

### SOURCES

Data for CHEMTOX are taken from lists published in the U.S. Federal Register and the Code of Federal Regulations, U.S. government publications, core journals, books, technical reports, and manufacturers' safety data sheets.

### DIALOG FILE DATA

Inclusive Dates: Currently Available Data

Update Frequency: Closed

File Size: 10,491 records as of Q3 1998

### CONTACT

**CHEMTOX® Online** is provided by Atrion International Inc. Questions concerning file content should be directed to:

Atrion International Inc.

Anne Hodgkinson

Manager, Marketing and Communications

4777 Levy Street

St. Laurent, Quebec H4R 2P9

Canada

Phone: 514-337-2114 ext. 228

Fax: 514-337-2115

E-Mail: [ahodgkinson@atrionintl.com](mailto:ahodgkinson@atrionintl.com)

## SAMPLE RECORD

DIALOG(R)File 337:CHEMTOX(R)

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00000045

## IDENTIFIER INFORMATION

/CN, CN=, /NA, NA=  
/SY, SY=, /NA, NA=

Chemical Name : METHYL MERCAPTAN  
 Synonym(s) : MERCAPTAN METHYLIQUE (French);  
 METHVTIOLO (Italian); METHAANTHIOL  
 (Dutch); METHANTHIOL (German);  
 METHYLMERCAPTAAN (Dutch);  
 METILMERCAPTANO (Italian); METHYL  
 MERCAPTAN; METHYL MERCAPTAN (DOT);  
 METHANETHIOL; THIOMETHANOL;  
 MERCAPTOMETHANE; THIOMETHYL  
 ALCOHOL; METHYLSULFHYDRATE

RN=, /NAME

CAS Registry Number : 74-93-1  
 RTECS Number : PB4375000  
 Molecular Formula : CH4S  
 Molecular Weight : 48.11  
 Wisswesser Line Notation : SH1  
 Record Last Updated : 03/28/94

RR=

MF=

MW=

PD=, UP=

/PROP

## PHYSICAL PROPERTY INFORMATION

Physical Description : CLEAR LIQUID OR COLORLESS GAS WITH  
 ODOR OF ROTTEN CABBAGE

BP= Boiling Point in C : 6 C  
 Boiling Point in F : 42.9 F  
 Boiling Point in K : 279.21 K

MP= Melting Point in C : -119.9 C  
 Melting Point in F : -183.9 F  
 Melting Point in K : 153.26 K

AP= Auto Ignition in C : -  
 Auto Ignition in F : -  
 Auto Ignition in K : -

FP= Flash Point in C : -18.15 C  
 Flash Point in F : -7 F  
 Flash Point in K : 255 K

Vapor Pressure (psi) : 1.66 (air=1)  
 Vapor Pressure Data : 1.7 ATM @ 20 C  
 Vapor Specific Gravity : 1.66 (air=1)  
 Heat of Vaporization (Btu/lb) : 220 Btu/lb  
 Heat of Vaporization (Cal/g) : 122.18 cal/g  
 Heat of Vaporization (J/Kg) : 5.112x E5 J/kg  
 Heat of Combustion (Btu/lb) : -11054 Btu/lb  
 Heat of Combustion (Cal/g) : -6145 cal/g  
 Heat of Combustion (J/Kg) : -257x E5 J/kg  
 Critical Pressure in psi : 7.25 kN/M2  
 Critical Pressure in atm : 71.4 atm  
 Critical Pressure in kN/M2 : 1050 psia  
 Critical Temperature in C : 196.85 C  
 Critical Temperature in F : 386.33 F  
 Critical Temperature in K : 470.0 Kelvin  
 Evaporation Rate : Not given  
 Antoine Equation : A = 6.18991; B = 1030.496; C =  
 240.330; LO = -51.27 C; HI=5.987  
 C; REF = PSD17

UE= Upper Explosive Limit : 21.8 %  
 LE= Lower Explosive Limit : 3.9 %  
 Ionization Potential : 9.44

SG= Specific Gravity : 0.892 @ 6C  
 Water Solubility (mg/L) : 2.4%  
 Absorbance Units : 0.016 at PEL of (C)10 ppm  
 Absorbance Wavelength : 3.4  
 Linearity Term (Foxboro) : 796.2  
 Foxboro Pathlength/Multi : 20.25  
 Incompatibilities : STRONG OXIDIZERS, BLEACHES; MERCURY  
 (II) OXIDE SAX  
 Reactivity w/ Water : REACTS TO PRODUCE TOXIC AND FLAMMABLE  
 VAPORS (STEAM ALSO) SAX  
 Reactivity w/ Common Mtl : REACTS WITH ACIDS TO PRODUCE TOXIC AND  
 FLAMMABLE VAPORS SAX  
 Stability Dur. Transport : No Data  
 Polymerization Possible : NOT PERTINENT HCDB  
 Minimum Detectable Conc : 1.3

## SAMPLE RECORD (cont'd)

Toxic Fire Gases : HIGHLY TOXIC FUMES OF OXIDES OF SULFUR  
 Odor Description : Garlic; foul; strong offensive  
 Odor Detection Limit : No data  
 Odor (100% Detection) : 0.0021 ppm  
 Uses : Synthesis, especially of methionine,  
 jet fuel additives, fungicides; also  
 as catalyst. Condensed Chemical  
 Dictionary, 10th ed

/REG, /RG

REGULATORY INFORMATION  
 DOT - Department of Transportation  
 (...)

DOT Quantity Limitations  
 DOT Passenger Air/Rail: FORBIDDEN  
 DOT Cargo Aircraft : 300 LBS  
 (...)

/REG, /RG, /TOX, /TO

EPA SUPERFUND - Environmental Protection Agency  
 SARA 312 Categories  
 Acute toxicity: adverse effect to target organs.  
 Chronic toxicity: adverse effect to target organ after long  
 period of exposure.  
 Chronic toxicity: mutagen.  
 Fire hazard: flammable.  
 Sudden pressure: compressed gases.  
 Acute toxicity: Toxic. LD50 = 50 and <= 500 mg/kg (oral rat).

/REG, /RG

SARA 313 Reporting Reqs : 1.0  
 SARA Date : 9498  
 CERCLA RQ Symbol : B CERCLA  
 CERCLA RQ (Rep. Qty) : 100 pounds (45.4 kg) CERCLA  
 TPQ (Threshold Pl. Qty.): 500

USPS - US Postal Service  
 Hazard class: Not given  
 Mailability: Nonmailable  
 Max per parcel: 0

NFPA - National Fire Protection Association Code Information  
 Health Hazard (BLUE) : (2) Hazardous to health. Area may be  
 entered with self-contained breathing  
 apparatus.  
 Flammability (RED) : (4) This material forms readily  
 ignitable mixtures in air.  
 Reactivity (YELLOW) : (0) Stable even under fire conditions.  
 Special : Unspecified

OSHA - Occupational Safety & Health Administration  
 STEL : Not in Table Z-1-A  
 8 Hour Air Contam Limit : Final Rule Limits: TWA = 0.5 ppm (1  
 mg/M3)  
 HS System ID : 1263  
 Air Contam Ceiling Limit: Not in Table Z-1-A  
 Duration at Max Conc : 1  
 Max Allowable Conc : 0.5

EPA - Environmental Protection Agency  
 Waste Number : U153 D001  
 Toxic Characteristics ID: None  
 Pesticide Rereg Ingrid : Not listed  
 TSCA Status

(...)

State Regulatory Information

CA List of Lists  
 (E) SARA Section 302 Extremely Hazardous Substances.  
 CA Water List Cat & Date: Not listed

MA List of Lists  
 METHYL MERCAPTAN

OSHA  
 ACGIH  
 NFPA325M  
 \*E\*

Substances listed by the USEPA as having TPQs  
 FEPA

MD/NJ List of Chemicals ("X" = Yes)  
 x

NJ List of Lists  
 (...)

PA List of Lists  
 Environmental Hazard

## SAMPLE RECORD (cont'd)

/TOX, /TO

Canadian Ingredients Disclosure List  
 Listed ? : Y  
 Chemical French Spelling: METHYLMERCARTAN  
 Concentration : 1 %

OTHER  
 Threshold Quantity (TQ): 5000 lbs  
 Toxic Character Reg Lvl : Not given  
 STCC Number : 4905520

Summary of Regulatory Lists That This Substance Appears On  
 ACGIH TLV list "Threshold Limit Values for 1992-1993"  
 Canadian Domestic Substances List  
 Canadian Ingredient Disclosure List. 20/01/88 Canada Gazette  
 part II, Vol 122.  
 Clean Air Act Section 112(r) Accidental Release List -Toxics:  
 TQ = 1000 lbs.  
 (...)  
 METHYL MERCAPTAN [74-93-1]  
 Massachusetts Substance List.  
 New Jersey Right To Know Substance List. (December 1987)  
 (...)  
 Washington State Discarded Chemical Products List, November 17,  
 1989

TOXICITY INFORMATION  
 Short Term Toxicity  
 NARCOSIS, CYANOSIS, CONVULSIONS, PULMONARY IRRITATION,  
 RESPIRATORY PARALYSIS, HEADACHE AND NAUSEA. \*\* Source: 2  
 Long Term Toxicity  
 DATA NOT AVAILABLE \*\* Source: HCDB  
 Target Organs : RESP SYS, LUNGS, CNS, KIDNEYS AND  
 LIVER  
 Symptoms : Inhalation causes irritation of  
 respiratory system, tremors,  
 paralysis, unconsciousness; death  
 (...)

Carcinogen List Summary  
 IARC: Not listed  
 MAK: Not listed  
 NIOSH: Not listed  
 NTP: Not listed  
 ACGIH: Not listed  
 OSHA: Not listed  
 EPA CAGS Hazard Ranking : Not listed  
 LD50 Value : No LD50 in RTECS 1992  
 LD50 Value (albino rabbit): Not given  
 LC50 Value  
 ihl-rat LC50:675 ppm LachB# 09JUN78  
 ihl-mus LC50:6530 ug/m3/2H GTPZAB 16(6),46,72  
 LC50 Species : RAT

Other Species Toxicity  
 3J30K12M10ihl-rat LC50:675 ppm LachB# 09JUN78  
 \* ihl-mus LC50:6530 ug/m3/2H GTPZAB 16(6),46,72  
 \* unr-mam LD50:60670 ug/kg GTPZAB 16(6),46,72

Reproductive Toxicity  
 Not given

Toxicity Data (RTECS)  
 ihl-rat LC50:675 ppm LachB# 09JUN78  
 LUNGS, THORAX, OR RESPIRATION  
 Other changes  
 GASTROINTESTINAL  
 Hypermotility, diarrhea  
 KIDNEY, URETER, BLADDER  
 Urine volume increased  
 \* ihl-mus LC50:6530 ug/m3/2H GTPZAB 16(6),46,72

Irritation Data (RTECS)  
 No data

Mutagenic Data : insect  
 Teratogenic Data : N Ref:  
 Routes of Entry : INHALATION, SKIN, EYE CONTACT \*\*

Source: HTHC  
 From Deutsche Forschungsgemeinschaft Reports  
 MAK Information  
 MAK workplace concentration data:  
 0.5 ppm

## SAMPLE RECORD (cont'd)

1 mg/M3

Substance has intense odor. Peak = 2xMAK for 10 minutes, 4 times per shift of 8 hours.

Teratogenic Data Group : MAK workplace concentration data Not listed  
Carcinogenic Data Group : MAK workplace concentration data Not listed

Abnormal Sensitivity : MAK data Not listed

Max Workplace Conc. : 0.5

Max Workplace Conc. : 1

Exposure Peak Limits : MAK data Substance has intense odor.  
pEAK = 2xMAK for 10 minutes, 4 times per shift of 8 hours.

/FA

## FIRST AID AND PERSONAL PROTECTION INFO

## First Aid

CHEMICAL: METHYL MERCAPTAN

SOURCE: CHRIS Manual 1991

INHALATION: remove patient immediately from the contaminated area; keep him warm and at complete rest; if necessary give artificial respiration until medical assistance can be obtained; oxygen or oxygen-CO#M2 inhalation is recommended, continuing after spontaneous breathing has returned.

EYES: for exposure to vapor, apply hot and cold compresses to reduce pain of conjunctivitis; for exposure to liquid, wash with water and obtain medical assistance.

SKIN: wash with water.

INGESTION: induce vomiting and follow with gastric lavage.

SOURCE: DOT Emergency Response Guide 1990.

(...)

## Protection Suggested

Med Conditions Aggrav. : Unknown

## NIOSH Resp Codes

NIOSH (METHYL MERCAPTAN)

5 ppm: Any supplied-air respirator. / Any self-contained breathing apparatus. / Any chemical cartridge respirator

(...)

400 ppm: Any supplied-air respirator with a half-mask and operated in a pressure-demand or other positive pressure mode.

EMERGENCY OR PLANNED ENTRY IN UNKNOWN CONCENTRATIONS OR IDLH

CONDITIONS.: Any self-contained breathing apparatus with

(...)

ESCAPE: Any air-purifying full facepiece respirator (gas mask) with a chin-style or front- or back-mounted organic vapor canister. / Any appropriate escape-type self-contained breathing apparatus.

## NIOSH Resp Codes Text

NIOSH (METHYL MERCAPTAN)

(...)

/HAZ, /HZ

## SPILL, STORAGE, AND INITIAL INCIDENT RESPONSE INFORMATION

DOT Shipping Name : Methyl mercaptan

DOT ID Number : UN1064

DOT Hazard Class : 2.3 POISON GAS

## DOT Guide Information

DOT SHIPPING NAME: Methyl mercaptan

DOT ID NUMBER: UN1064

## ERG93 GUIDE 13

\*POTENTIAL HAZARDS\*

\*HEALTH HAZARDS

\*Poison; extremely hazardous.

May be fatal if inhaled or absorbed through skin.

Initial odor may be irritating, foul or absent and may deaden your sense of smell. Runoff from fire control or dilution water may cause pollution.

\*FIRE OR EXPLOSION

(...)

DISCLAIMER: The data shown above on this chemical represents a best effort on the part of the compilers of the CHEMTOX database to obtain useful, accurate, and factual data. The use of these data shall be in accordance with the guidelines and limitations of the user's CHEMTOX license agreement. The COMPILERS of the CHEMTOX database shall not be held liable for inaccuracies or omissions within this database, or in any of its printed or displayed output forms.

## SEARCH OPTIONS

## BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
— /CN	— CN	All Basic Index Fields Chemical Name <sup>1</sup>	Word Segment & Word & Phrase	S METHYL(W)MERCAPTAN S METHYL/CN S METHYL(W)MERCAPTAN/CN S METHYL MERCAPTAN/CN
/FA /HAZ /HZ /NA	FA HZ HZ NA	First Aid Spill, Storage, & Incident Response Spill, Storage, & Incident Response Chemical Name and Synonyms <sup>1,2,3</sup>	Word Word Word Segment & Word & Phrase	S GASTRIC(W)LAVAGE/FA S FLAMMABLE/HAZ S FLAMMABLE/HZ S METHYL/NA S METHYLMERCAPTAAN(W)DUTCH/NA S METHYLMERCAPTAAN (DUTCH)/NA
/NAME	NM	Chemical Name <sup>4</sup>	Segment & Word & Phrase	S METHYL/NAME S (METHYL(W)MERCAPTAN AND CH4S)/NAME S (METHYL MERCAPTAN AND CH4S)/NAME
/PP /PROP /REG /RG /SY	PP PP RG RG SY	Properties Properties Regulatory Information Regulatory Information Synonym <sup>1,2</sup>	Word Word Word Word Segment & Word & Phrase	S FLAMMABLE(W)VAPORS/PP S FLAMMABLE(W)VAPORS/PROP S EXTREMELY(W)HAZARDOUS/REG S EXTREMELY(W)HAZARDOUS/REG S THIO/SY S THIOMETHYL(W)ALCOHOL/SY S THIOMETHYL ALCOHOL/SY
/TO /TOX /USES	TO TO US	Toxicology <sup>5</sup> Toxicology <sup>5</sup> Uses	Word Word Word	S (KIDNEY OR LUNG)/TO S (KIDNEY OR LUNG)/TOX S FUNGICIDES/USES

<sup>1</sup> Searchable in the Basic Index and in the Additional Indexes.

<sup>2</sup> All chemical names are indexed as complete phrases, individual words, and chemically-significant segments of words. Use /FW to restrict retrieval to the complete term, e.g., S ETHANE/FW to only select ethane as a single word rather than as a segment of a larger chemical term, such as trichloroethane.

<sup>3</sup> NA contains both the SY and CN fields.

<sup>4</sup> NAME contains the NA field, plus the Molecular Formula, CAS Registry Number, and WHMIS French Name. Also searchable with /NM.

<sup>5</sup> The full RTECS data is available in File 336. CODENs list journal references, and using a format 9 in file 336 will give records without abbreviations. Please use the CAS Registry Number or the RTECS number in going between files.

## ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AP=	AP	Auto-ignition Point (Celsius) <sup>6</sup>	Numeric	S AP=252.8
BP=	BP	Boiling Point (Celsius) <sup>6</sup>	Numeric	S BP=0.0:10.0
CN=	CN	Chemical Name <sup>1</sup>	Phrase	S CN=METHYL MERCAPTAN
DN=	DN	Density (g/mL) <sup>6</sup>	Numeric	S DN=0.692
FP=	FP	Flash Point (Celsius) <sup>6</sup>	Numeric	S -20<=FP<=0
LE=	LE	Lower Explosive Limit (%) <sup>6</sup>	Numeric	S LE=3.9
LO=	LO	Chemical Lists	Word	S LO=(NEW(W)JERSEY)
MF=	MF	Molecular Formula	Phrase	S MF=CH4S
MP=	MP	Melting Point (Celsius) <sup>6</sup>	Numeric	S MP=-119.9
MW=	MW	Molecular Weight <sup>6</sup>	Numeric	S MW=48.11
NA=	NA	Chemical Name and Synonyms <sup>1,3</sup>	Phrase	S NA=THIOMETHYL ALCOHOL
NF=	NF	NFPA Information	Word	S NF=(BLUE(W)2)
PD=	PD	Publication Date	Phrase	S PD=19940328
RN=	RN	CAS(R) Registry Number	Phrase	S RN=74-93-1
RR=	RR	RTECS Number	Phrase	S RR=PB4375000
SG=	SG	Specific Gravity <sup>6</sup>	Numeric	S SG=0.8926
SY=	SY	Synonym <sup>1</sup>	Phrase	S SY=METHANETHIOL
UD=	—	Update	Phrase	S UD=9999
UE=	UE	Upper Explosive Limit(%) <sup>6</sup>	Numeric	S UE=21.8
UP=	UP	Chemtox Update Code	Phrase	S UP=19940328

## DISPLAY ONLY

—	AA	CHEMTOX Dictionary Items		
—	AB	Absorbance Units		
—	AF	Auto-Ignition Temperature in F		
—	AG	Air Sampling Agency		
—	AK	Auto-Ignition Temperature in K		
—	AM	NIOSH/OSHA Analytical Method		
—	AN	DIALOG Accession Number		
—	AQ	Aquatic Toxicity		
—	AR	Air Sampling Method		
—	AT	Antoine Equation		

## ADDITIONAL INDEXES (cont'd)

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	AW	Absorbance Wavelength		
—	AX	ACGIH Comments on Exposure		
—	BF	Boiling Point in F		
—	BK	Boiling Point in K		
—	C1	Critical Pressure in atm		
—	C2	Critical Pressure in kN/M2		
—	C3	Critical Temp in C		
—	C4	Critical Temp in F		
—	C5	CWA Priority Pollutant		
—	CA	Clean Air Act Reference		
—	CC	Protective Clothing Guidelines		
—	CE	OSHA Ceiling/Air Contaminants		
—	CG	EPA CAG (Carcinogen) Hazard		
—	CH	ACGIH Carcinogenicity Code		
—	CI	IARC Carcinogenicity Code		
—	CJ	NIOSH Carcinogenicity Code		
—	CL	Compound Class		
—	CM	MAK Carcinogenicity Code		
—	CP	Critical Pressure in psi		
—	CQ	NTP Carcinogenicity Code		
—	CR	Carcinogen Data Flag		
—	CT	Carcinogen Summary		
—	CV	Critical Temp in K		
—	CW	Clean Water Act (CWA) Listed		
—	CX	CWA Hazardous Substance Listed		
—	CY	Chemical Reactivity		
—	DC	DOT Hazard Class		
—	DD	DOT Identification Number		
—	DE	Physical Description		
—	DG	DOT Guide Number		
—	DI	DOT Guide Information		
—	DL	DOT Labels Required		
—	DO	DOT Information		
—	DQ	DOT Shipping Name		
—	DU	OSHA Max Concentration Duration		
—	EI	EPA RCRA Hazardous Waste ID		
—	EV	Evaporation Rate		
—	EX	Extinguishing Media		
—	FA	First Aid Information		
—	FF	Flash Point in F		
—	FI	FIRE/EMERGENCY Procedures		
—	FK	Flash Point in K		
—	FL	Foxboro Pathlength		
—	FM	Flash Point Method		
—	FR	EPA FIFRA Pesticide Registration		
—	GW	EPA Waste Analytical Method		
—	H1	Heat of Vaporization (cal/g)		
—	H2	Heat of Vaporization (J/Kg)		
—	H3	Heat of Combustion (cal/g)		
—	H4	Heat of Combustion (J/Kg)		
—	HC	Heat of Combustion (Btu/lb)		
—	HD	Hazard Designation/Washington		
—	HE	Human Toxic Effects (RTECS)		
—	HT	Human Toxicity Data (NIOSH, RTECS)		
—	HV	Heat of Vaporization (Btu/lb)		
—	ID	NIOSH Danger Concentration		
—	IN	Chemical Incompatibilities		
—	IP	Ionization Potential		
—	IR	Irritation Data (RTECS)		
—	IS	Initial Isolation Distance		
—	LC	LC50 (Lethal Concentration)		
—	LD	LD50 (Lethal Dose)		
—	LI	Infrared Linearity Term		
—	LL	List of Lists/California		
—	LM	List of Lists/Massachusetts		
—	LN	List of Lists/New Jersey		
—	LP	Haz Substance List/Pennsylvania		
—	LR	LD50 for Rats (RTECS)		
—	LS	LD50 for Albino Rabbits Skin		
—	LT	Long Term Toxicity		
—	LX	LC50 Species (RTECS)		
—	LZ	LD50 Species (RTECS)		

## ADDITIONAL INDEXES (cont'd)

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	MA	Medical Conditions Aggravated		
—	MB	OSHA Max Allowable Concentration		
—	MD	Minimum Detectable Concentration		
—	ME	Melting Point in F		
—	MG	Max Workplace/Fetal Damage		
—	MH	Higher Than Normal Sensitivities		
—	MI	USPS Mailability Info		
—	MK	Melting Point in K		
—	ML	Max Water Contaminant Level		
—	MM	Max Workplace Concentration/ppm		
—	MN	Max Workplace Concentration/mG/M3		
—	MO	Exposure Peak Limitations		
—	MQ	DOT Max Qty/Air Cargo Only		
—	MR	Marine Pollutant		
—	MS	DOT Max Qty/Rail or Air Passenger		
—	MU	RTECS Mutagenic Data		
—	MX	Max Tolerance Values		
—	MY	EPA Water Max Contaminant Level		
—	MZ	Carcinogenicity Grouping		
—	NB	NFPA Health Code (blue)		
—	NC	RTECS Carcinogen Determination		
—	NG	Neutralizing Agents		
—	NH	Health Hazard Code/New Jersey		
—	NI	NIOSH Respirator Selection Info		
—	NJ	Extraordinary Hazard/New Jersey		
—	NN	Substance Number/New Jersey		
—	NR	NFPA Flammability Code (red)		
—	NS	NFPA Special Code		
—	NY	NFPA Reactivity Code (yellow)		
—	OA	OSHA Action Level		
—	OC	OSHA Exposure Comments		
—	OD	Odor Description		
—	OH	Odor Detected by 100% population		
—	OL	Odor Lower Detection Limit		
—	OT	Other Species Toxicity Data		
—	PE	OSHA Air Contaminants Limits		
—	PL	Polymerization Possibility		
—	PQ	Practical Quantitation Limit		
—	PS	Safe Drinking Water/California		
—	QC	OSHA Exposure Limit Comments		
—	RC	Common Material Reactions		
—	RE	Routes of Entry		
—	RL	NIOSH Exposure Limits		
—	RP	RTECS Reproductive Toxicity		
—	RQ	CERCLA Reportable Qty Symbol		
—	RS	Reportable Quantity (lbs)		
—	RT	RTECS (NIOSH) ID Number		
—	RX	RTECS Reproductive Toxicology		
—	SA	List of Chems/Maryland/New Jersey		
—	SC	Standard Tariff Commodity Code		
—	SD	SARA Appearance Effective Date		
—	SE	ACGIH Short Term Exposure Limit		
—	SI	OSHA Short Term Exposure Limits		
—	SL	DOT Spill/Leak Info		
—	SM	SARA 313 Reporting Requirements		
—	SP	Symptoms of Exposure		
—	SR	General Storage Requirements		
—	SS	Small Spill Action		
—	ST	Stability During Transport		
—	SU	Superfund Notes		
—	SX	Short Term Toxicity		
—	SZ	SARA 312 Categories		
—	TC	EPA Toxic Characteristics ID Num		
—	TF	Toxic Fire Gases		
—	TG	Target Organs		
—	TL	Threshold Limit Value ACGIH		
—	TP	Threshold Planning Quantity		
—	TQ	Threshold Quantity		
—	TR	Toxic Characteristic Reg Level		
—	TS	TSCA Status		
—	TT	Teratogenic Data		
—	TW	OSHA 8 Hr Time Limit		

**ADDITIONAL INDEXES (cont'd)**

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	TX	RTECS Toxicity Data		
—	VA	Vapor Pressure in Atm		
—	VD	Vapor Specific Gravity		
—	VP	Vapor Pressure in psi		
—	VV	Vapor Volume in ft3		
—	VX	Vapor Pressure Data		
—	WA	Water Reactivity		
—	WC	Canada Ingrid Disclosure List Conc		
—	WF	Canada French Spelling of Chem		
—	WH	Canada Ingrid Disclosure Listed		
—	WL	Wisswesser Line Notation		
—	WS	Water Solubility		
—	ZS	OSHA HS System ID Number		

<sup>6</sup> Numeric values can be entered in several ways: either directly, without conversion to exponential form, or in exponential form, e.g., S BP=1025 or S BP=1.025e03 or S BP=1.025e3. Letter abbreviations are also available: K for thousands, M for millions, B for billions, and T for trillions, e.g., S BP=1K. To search a range of values, SELECT a range, i.e., S BP=500:1000, or use relational operators, i.e., <, >, <=, >=; S BP>=500 or S 500<=BP<=1000.

**SPECIAL FEATURES**

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP MAP online.

<b>SORT</b>	CN, MF, RN	SORT S1/ALL/CN,D PRINT S5/5/1-24/RN
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked.	RANK NA RANK MF S4
<b>MAP</b>	RN, RR, SY	MAP RN TEMP S2

**PREDEFINED FORMAT OPTIONS**

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Basic Information and Toxicity Information <sup>7</sup>
3	Medium	Basic Information and Physical Properties <sup>7</sup>
4	--	Full Record with Tagged Fields
5	--	Full Record
6	Free	Chemical Name
7	Long	Basic Information and Regulations <sup>7</sup>
8	Short	Basic Information (DIALOG Accession Number, CHEMTOX Accession Number, Chemical Names, CAS Registry Number, Molecular Formula, Molecular Weight, Chemical Class, RTECS Number, WLN Notation, Date Record Last Updated)
9	Full	Full Record
12	--	Basic Information, First Aid, and Personal Protection
13	--	Basic Information and Initial Incident Response <sup>7</sup>
14	--	Basic Information, Toxicity, and Physical Properties
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

<sup>7</sup> In the place of a format number, a format name can also be specified to indicate the format, e.g., TYPE S1/TOX/ALL. The Named Formats available are: TOX, PROP, REG, and HAZ.

**OTHER OUTPUT OPTIONS**

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

<b>USER DEFINED FORMATS</b>	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/RN,NA/1-5
<b>TAG</b>	Output can be displayed with tags identifying each display field.	TYPE S3/5/1-10 TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 00000045/5 DISPLAY 00007448/RN,NA PRINT 00005030/9

**FOR ONLINE HELP:**

See HELP FIELDS 337 for searchable fields; HELP FORMAT 337 for output formats; HELP LIMIT 337 for limits; HELP RATES 337 for cost information; HELP SORT 337 for sorts.