

CHEMLIST® / HCHEMLIST (Regulated Chemicals Listing)

The two files differ only in pricing metrics.

Su	bje	ct	
Co	ver	ag	е

- Substance inventories
- · Regulatory lists
- Dangerous chemicals

File Type

Directory, Substance, Inventory

Features

Not available Thesaurus Alerts (SDIs) Weekly Page Images **CAS** Registry $\mathbf{\Lambda}$ Number® Identifiers **SLART** Keep & Share $\mathbf{\Lambda}$ \mathbf{V} Structures Learning Database П П

Record Content

- Substance identity information, inventory status, source of information, and summaries of regulatory activity, reports, and other compliance information
- CHEMLIST offers the convenience of identifying—in one place—the regulatory requirements for a specific substance from many of the world's most significant regulated substances lists

File Size

More than 406,500 records (01/24)

Coverage

Inventories and regulatory listings, 1980-present

Updates

- Updated weekly with more than 50 additions to existing records or new substances
- PMN/NOC information appears in CHEMLIST within a week of when it is published in the Federal Register

Language

English

Database Producer

Chemical Abstracts Service 2540 Olentangy River Road

P.O. Box 3012

Columbus, Ohio 43210-0012 USA Phone: 800-753-4227 (North America) Phone: 614-447-3731 (worldwide)

Email: help@cas.org Copyright Holder

CHEMLIST/HCHEMLIST

Sources

 CHEMLIST was originally built from data in the 1985 TSCA Inventory and supplements, and updates from the U.S. Government Federal Register. Over time more than 100 additional collections of data have been added. Sources of the data include web sites, official government lists, gazettes, newsletters, bulletins, and electronic data feeds.

User Aids

- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

Clusters

- CASRNS
- GOVREGS
- HEALTH
- SAFETY
- TOXICOLOGY

STN Database Cluster information

Pricing

Enter HELP COST at an arrow prompt (=>).

SEARCH and DISPLAY Field Codes

The field that allows left truncation (/BI) is marked with an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains CAS Registry Numbers, single words from the CN, CFR, INV, INVT, SC, and UVC fields, EPA numbers, and summary text of each section of the law) (1)	None (or /BI)	S ?BROMO? AND INHAL? S 77-47-4 or S ECOTOXIC? S P 79-11	All fields except AN, CBI, DEF, FA, FS
Accession Number ACGIH Threshold Limit Values California Proposition 65 List Canadian Legislation Affecting Chemicals CAS Registry Number CERCLA Hazardous Substances CFR Section CFR Title (2)	/AN /TLV /PROP65 /CANL /RN /CERHS /SC /CFR	S 33063/AN S BENZENE/TLV S REPROD? TOXIC? /PROP65 S IMPORT?/CANL S 77-47-4/RN S RQ/CERHS S 29 CFR 1910.119/SC S 40 CFR PART 116/CFR	AN TLV PROP65 CANL RN CERHS SC CFR
Chemical Hazard Information Profile Chemical Name Chemical/Physical Properties Citizens' Petition - TSCA Section 21 Classification, Labeling, and Packaging Clean Air Act 1990 Amendments	/CHP /CN /PROP /PET /CLP (/EECDS) /HAP	S CARCIN?/CHP S M-CRESOL/CN S SOLUBILITY/PROP S PCB/PET S ACETATE/CLP S ACETALDEHYDE/HAP	CHP CN PROP PET CLP HAP
Hazardous Air Pollutants Clean Air Act National Ambient Air Quality Standards	/AAQS	S AEROSOL/AAQS	AASQ
Clean Air Act Ozone Depleting Compounds Clean Air Act Section 111 Volatile Organic Compounds	/ODC /VOC	S METHYL BROMIDE/ODC S EMISSION STANDARDS/VOC	ODC VOC
Clean Water Act Sections 301, 307, and 311 Confidentiality Status Cross-Reference Registry Number Definition for UVCB Substances DOT Coast Guard Bulk Hazardous Materials DOT Coast Guard Noxious Liquids DOT Hazardous Materials Table	/CWA /CBI /XRN /DEF /CGB /CGN /HAZT	S POLLUTANT/CWA S PUBLIC/CBI S 9000-78-6/XRN S FATTY ACID#/DEF S BUTYROLACTONE/CGB S BUTYRIC ACID/CGN S FORBIDDEN/HAZT	CWA CBI XRN DEF CGB CGN HAZT
Drug Enforcement Administration Precursor and Essential Chemicals Entry Date (3)	/DEA	S DESOMORPHINE/DEA S ED>=20110804	DEA Not displayed
EPA Number EPA Pesticide Active Ingredients EPA Pesticide Inert Ingredients EPA Significant New Alternatives Program for CFCs and Halon	/EPN /PAI /PII /SNAP	S 1-1018/EPN S SODIUM FUMARIN/PAI S LARD/PII S LIMITS/SNAP	RLN PAI PII SNAP
European Community Legislation Exemption from PMN FDA FDA Food Substances Generally Recognized	/EECL /5H (or /EXM) /FDA /FGRAS	S EXPOSURE/EECL S INK?/5H S ALCOHOL/FDA S RUE/FGRAS	EECL 5H FDA FGRAS
as Safe FDA Priority-Based Assessment of Food Additives	/PAFA	S PARSLEY/PAFA	PAFA
Field Availability File Segment German Water Hazard Class Substance List Harmonized Tariff Code Hazard, Toxicology, and Use Information	/FA /FS /WGK /HTC /HTU	S 4A/FA or S EHS/FA S TSCA/FS or S ENCS/FS S (HAZARD CLASSIFICATION/WGK S 381121/HTC S MUTATION/HTU	FA FS WGK HTC HTU
Health Advisory Health Hazards High Production Volume Chemicals Import - Export Regulation	/HA /HHAZ /HPV /IER	S WORKER#/HA S INHALATION RISK/HHAZ S UNITED STATES/HPV S TEST RULE/IER	HA HHAZ HPV IER
Insufficient Data Order Interagency Testing Committee Interagency Testing Committee Candidate International Agency for Research on Cancer	/5E (or /INS) /4E (ITC) /ICC /IARC	S NEURO?/5E S CARCIN?/4E S REVIEW#/ICC S GROUP 1/IARC	5E ITC ICC IARC

SEARCH and DISPLAY Field Codes (cont'd)

SEARCH and DISPLAT FIELD	, , , , , ,	T .	
Search Field Name	Search Code	Search Examples	Display Codes
Inventory Status	/INV	S (YES AND TSCA)/INV	INV
Inventory Status Text	/INVT	S CANADA GAZETTE/INVT	INV
Inventory Update Rule	/IUR	S 1998/IUR	IUR
Massachusetts Toxic and Hazardous Substance List	/MASS	S CAMPHOR OIL/MASS	MASS
Michigan Critical Materials Register	/SMI	S PARATHION/SMI	SMI
Minnesota Right-to-Know	/SMN	S CYCASIN/SMN	SMN
Miscellaneous Regulation (4)	/MISC	S DIOXIN#/MISC	MISC
National Toxicology Program Carcinogen List	/NTPC	S PHENYTOIN/NTPC	NTPC
National Toxicology Program Technical Reports List	/TRNTP	S PHENOL/TRNTP	TRNTP
New York Hazardous Substances Release and Bulk Storage	/SNY	S CALCIUM/SNY	SNY
NIOSH Recommended Exposure Limits	/NREL	S HYDROGEN PEROXIDE/NREL	NREL
OECD Screening Information Data Set Project	/SIDS	S BASE LEVEL/SIDS	SIDS
OSHA Highly Hazardous Chemicals	/HHC	S ALLEGATION#/HHC	HHC
OHSA Permissible Exposure Levels	/PEL	S PHOSGENE/PEL	PEL
Pennsylvania Right-to-Know	/SPA	S HAZARD/SPA	SPA
Premanufacture Notice	/5A1 (or /PMN)	S (AMES TEST)/PMN	PMN
Premanufacture Notice Number	/5A1 (01 /PMNN)	S Y 89-75/PMNN	PMN
RCRA Halogenated Organic Compounds	/HOC	S PCBS/HOC	HOC
RCRA Land Disposal Restrictions	/LDR	S STANDARD/LDR	LDR
RCRA Land Disposal Restrictions			WSP
RCRA Waste Specific Prohibitions	/WSP	S BIOACCUMULATIVE/WSP	
Regulatory List Number	/RLN	S P 92-150/RLN	RLN
Report on Volume, Exposure, Etc.	/8A (or /REP)	S CAIR/8A	8A
Restricted Chemical Lists	/RSTR	S SINGAPORE/RSTR	RSTR
Risk May Be Unreasonable Safe Drinking Water Act Maximum Contaminant	/4F (or /RIS) /MCLG	S CANCER/4F S L1 AND PRIMAY/MCLG	4F MCLG
Level Goal Safe Drinking Water Act Maximum Contaminant	/MCL	S MAXIMUM/MCL	MCL
Levels SARA Title III/EPCRA Extremely Hazardous Substances	/EHS	S EMERGENCY PLAN?/EHS	EHS
Section Update Date (3)	/SUP	S 20110822-20110826/SUP	Not displayed
Significant New Use Rule	/5A2 (or /RSNU)	S CHLORINATED/RSNU	RSNU
State of Illinois Right to Know Toxic Substances List	//SIL	S TEMEPHOS/SIL	SIL
State of Louisiana Right-to-Know	/SLA	S SARIN/SLA	SLA
State of New Jersey Right-to-Know	/SNJ	S MUTAGEN/SNJ	SNJ
State of New York Right-to-Know	/SNY	S AIR/SNY	SNY
State of Rhode Island Right-to-Know	/SRI	S CYCLOPROPANE/SRI S	SRI
State of Vermont List of Chemicals of High Concern to Children	/SVT	S ARSENIC/SVT	SVT
Storage/Handling/Environment	/STOR	S SPILLAGE DISPOSAL/STOR	STOR
Studies on Toxicity/Exposure	/STY	S DAPHN?/STY or S DU PONT/STY	STY
Substantial Risk Report	/8E (or /SRR)	S TERATO?/8E	8E
Superfund Amendment Reauthorization Act Section 110	/S110	S PRIORITY LIST?/S110	S110
Superfund Amendment Reauthorization Act Section 313	/S313	S COPPER/S313	S313
Supplemental Data from the Japanese ENCS	/JDATA	S ACCUMULATED/JDATA	JDATA
Test Rule - TSCA Section 4a	/4A (or /TES)	S FINAL RULE/4A	4A
Transportation/Packaging/Labeling	/TRÀNS	S UNBREAKABLE/TRANS	TRANS
TSCA Section 4 Master Testing List	/MTL	S (FIRST LISTED 1990) MTL	MTL
Unpublished Report of Health/Safety Studies	/8D (or /UNP)	S MORTALITY/8D	8D
Unreasonable Risk - TSCA Section 6	/UNR	S METALWORK?/UNR	UNR
Update Date (3)	/UP	S UP>=20110801	Not displayed
UVC Subset Heading	/UVC	S ALGAE/UVC	UVC
UVCB Chemical Category	/UVCB	S PHENOLS/UVCB	UVCB
Violations to Miscellaneous Regulations or Advisory	NIO	S PCB/VIO	VIO
Lists			

- (1) At least four characters need to be used for the length of the stem for left truncation.
 (2) Search with implied (S) proximity is available in this field.
 (3) Numeric search field that may be searched with numeric operators or ranges. When a date is searched use the format of YYYYMDD. For more information view HELP SNUMERIC.
- (4) Contains TSCA Section 8(c) submissions to EPA.

DISPLAY and PRINT Formats

Any combination of formats may be used to DISPLA and PRINT answers. Multiple codes may be separated by spaces or commas, e.g., D RN FA. The fields are displayed in the order requested. Hit-term highlighting is available in all fields except AN and FA. Highlighting must be ON in order to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
4A (TES)	Test Rule - TSCA Section 4A	D 1-5 4A
4E (ITC)	Interagency Testing Committee	D 4E 5-15 L41
4F (RIS)	Risk May Be Unreasonable	D L2 4F 1-3,5 9
5A1 (PMN)	Premanufacture Notice	D 1-5 5A1
5A2 (RSNÚ)	Significant New Use Rule	D 5A2 L7
5E (INS)	Insufficient Data Order	D L1 5 5E
5H (EXM)	Exemption from PMN	D 5H 3 L7
8A (REP)	Report on Volume, Exposure, Etc.	D 8, 11, 15 8A
8D (UNP)	Rule Calling for Unpublished Health/Safety Studies	D UNP
8E (SRR)	Substantial Risk Report	D 8E 4A
AAQS	Clean Air Act National Ambient Air Quality Standards	D AAQS
AN (1)	Accession Number	D 1-10 AN
CANL	Canadian Legislation Affecting Chemicals	D CANL
CANL	Confidentiality Status	D CBI 2-3
CERHS	CERCLA Hazardous Substances	D CERHS
CFR	CFR Title	D CERHS
CGB	DOT Coast Guard Bulk Hazardous Materials	D CGB
CGN	DOT Coast Guard Noxious Liquids	D CGN
CHP	Chemical Hazard Information Profile	D L4 2-6 CHP
CLP (EECDS)	Classification, Labeling, and Packaging	D CLP
CN (2)	Chemical Name	D 1-7 L2 CN
CWA	Clean Water Act Sections 301, 307, and 311	D CWA
DEA	Drug Enforcement Administration Precursor	D DEA
DEF	Definition for UVCB Substances	D DEF
EECL	European Community Legislation	D EECL
EHS	SARA Title III/EPCRA Extremely Hazardous Substances	D EHS
FA (1)	Field Availability	D FA 1-5
FCN (3)	Full Chemical Name	D FCN 1-3
FDA	Federal Drug Administration Regulations	D FDA
FGRAS	FDA Food Substances Generally Recognized	D FGRAS
FS	File Segment	D FS L5 1-2
HA	Health Advisory	D L9 HA
HAP	Clean Air Act 1990 Amendments Hazardous Air Pollutants	D HAP
HAZT	DOT Hazardous Materials Table	D HAZT
HHAZ	Health Hazards	D HHAZ
HHC	OSHA Highly Hazardous Chemicals	D HHC
HOC	RCRA Halogenated Organic Compounds	D HOC
HPV	High Production Volume Chemicals	D HPV
HTC	Harmonized Tariff Code	DHTC
HTU	Hazard, Toxicology, and Use Information	D HTU
IARC	International Agency for Research on Cancer	D IARC
ICC	Interagency Testing Committee Candidate	D ICC INV
IER	Import - Export Regulation	D IER
INV	Inventory Status	DINV
ITC	Interagency Testing Committee	D ITC 5-15 L41
IUR	Inventory Update Rule	DIUR
JDATA	Supplemental Data from the Japanese ENCS	D JDATA
LDR	RCRA Land Disposal Restrictions	D LDR
	Massachusetts Toxic and Hazardous Substance List	D MASS
MASS		
MCL	Safe Drinking Water Act Maximum Contaminant Levels	D MCL
MCLG	Safe Drinking Water Act Maximum Contaminant Level Goals	D MCLG
MISC	Miscellaneous Regulations	D MISC
MTL	TSCA Section 4 Master Testing List	D MTL
NREL	NIOSH Recommended Exposure Limits	D NREL
NTPC	National Toxicology Program Carcinogen List	D NTPC
ODC	Clean Air Act Ozone Depleting Compounds	D ODC
PAFA	FDA Priority-Based Assessment of Food Additives	D PAFA
PAI	EPA Pesticide Active Ingredients	D PAI

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
PEL	OSHA Permissible Exposure Levels	D PEL
PET	Citizens' Petition - TSCA Section 21	D PET 1-3
PII	EPA Pesticide Inert Ingredients	D PII
PROP	Chemical/Physical Properties	D PROP
PROP65	California Proposition 65 List	D PROP65
RLN	Regulatory List Number	D RLN
RN	CAS Registry Number	D 1, 4, 8 RN
RSNU	Significant New Use Rule	D RSNU
RSTR	Restricted Chemical Lists	D RSTR
S110	Superfund Amendment Reauthorization Act Section 110	D S110
S313	Superfund Amendment Reauthorization Act Section 313	D S313
SC	CFR Section	D SC L1 4
SIDS	OECD Screening Information Data Set Project	D SIDS
SIL	State of Illinois Right-to-Know Toxic Substances List	D SIL
SLA	State of Louisiana Right-to-Know	D SLA
SMI	Michigan Critical Materials Register	D SMI
SMN	Minnesota Right-to-Know	D SMN
SNAP	EPA Significant New Alternatives Program for CFCs and Halon	D SNAP
SNJ	State of New Jersey Right-to-Know	D SNJ
SNY	New York Hazardous Substances Release and Bulk Storage	D SNY
SPA	Pennsylvania Right-to-Know	D SPA
SRI	State of Rhode Island Right-to-Know	D SRI
STOR	Storage/Handling/Environment	D STOR
STY	Unpublished Reports on Toxicity/Exposure Studies	D 1-3 STY
SVT TLV	State of Vermont List of Chemicals of High Concern to Children	D SVT D TLV
TRANS	ACGIH Threshold Limit Values Transportation/Packaging/Labeling	D TRANS
TRNTP	National Toxicology Program Technical Reports List	D TRNTP
UNR	Unreasonable Risk - TSCA Section 6	D UNR
UVCB (UVC)	UVCB Subset Heading	D UVCB or D UVC
VIO	Violations to Miscellaneous Regulations or Advisory Lists	D VIO 2-6 L3
VOC	Clean Air Act Section 111 Volatile Organic Compounds	D VOC
WGK	German Water Hazard Class Substance List	D WGK
WHMIS	WHMIS Ingredient List (Canada)	D WHMIS
WSP	RCRA Waste Specific Prohibitions	D WSP
XRN	Cross-Reference Registry Number	D XRN
ALL	AN, RN, CN, DEF, FS, UVCB, CBI, XRN, CFR, SC, RLN, HTC, INV, RSTR, FA, PMN, 4A, 4F, 5E, 5H, 8A, 8D, 8E, CHP, HA, ICC, IER, ITC, MTL, PET, RSNU,	D ALL
	STY, IUR, UNR, AAQS, HAP, ODC, SNAP, VOC, CERHS, CWA, PAI, PII, HOC, LDR,	
	EHS, S110, S313, MCL, MCLG, CGB, CGN, HAZT, FGRAS, PAFA, FDA, NREL, HHC, PEL, CANL, WHMIS, CLP, EECL, WGK, JDATA, STOR, DEA, TRANS, HTU, IARC,	
	HHAZ, HPV, PROP, SIDS, NTPC, TLV, TRNTP, VIO, MISC, PROP65,	
	SIL, SLA, MASS, SMI, SMN, SNJ, SNY, SPA, SRI, SVT	
FIDE	All substance identification, including all names, and legal status	D FIDE
. 102	(AN, RN, CN, DEF, FS, CBI, UVCB, CFR, XRN, SC, RLN, HTC, INV, RSTR, FA)	51.152
IDE	Substance identification (up to 50 names) and legal status	D 1-10 IDE
.52	(AN, RN, CN, DEF, FS, CBI, UVCB, CFR, XRN, SC, RLN, HTC, INV, RSTR, FA)	J 1 10 10 L
QRD	Query related data (IDE plus HIT) (default)	D
HIT	Fields containing hit terms	D AN HIT
KWIC	Hit terms plus 20 words on either side (Key-Word-In-Context)	D 3 L5 KWIC
OCC (1)	Number of occurrences of hit terms and fields in which they occur	DIS 1-10 OCC

⁽¹⁾ No online display fee for this format.(2) CN format displays the first 50 names, plus any hit names.(3) FCN format displays all available chemical names.

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers or an L-number containing terms from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
CAS Registry Number	RN	Υ	Υ
CFR Section	SC	Υ	Υ
CFR Title	CFR	Y(default) (2)	Υ
Chemical Name	CN	Y (3)	Υ
	FCN	Υ	Υ
	NAME	Y (4)	Ν
Chemical Names and CAS Registry Numbers	CHEM	Y (4)	Ν
Confidentiality Status	CBI	N (4)	Υ
Cross-Reference Registry Number	XRN	Υ	Ν
Definition	DEF	Υ	N
File Segment	FS	N	Υ
Harmonized Tariff Code	HTC	N	Y
Inventory Status	INV	N	Υ
Occurrence Count of Hit Terms	OCC	N	Y
Premanufacture Notice Number	PMNN	Υ	Υ
Regulatory List Number	RLN	Υ	Υ

⁽¹⁾ HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT PMNN.

- (2) Up to 50 available names are extracted.
- (3) All available chemical names are extracted.
- (4) Appends /BI to the terms created by SELECT.

Sample Record

DISPLAY ALL

(Display the FA (Field Availability) field before requesting the ALL format to determine the amount and type of information in the record. NOTE the difference between these two records.)

```
327898 CHEMLIST
AN
RN
      63918-90-1
     Ethane, 1,1'-[oxybis(methylenethio)]bis[2-chloro- (INSQ)
CN
      Etano, 1,1 '- [oxibis (metilenotio)] bis [2-cloro - (Spanish) (INSQ)
     Bis(2-chloroethylthiomethyl)ether (VNECI)
      1-chloro-2-[({[(2-chloroethyl)sulfanyl]methoxy}methyl)sulfanyl]ethane
      (English, French)
     Bis (2-chloroethylthiomethyl) ether
     bis(2-chloroethylthiomethyl) ether
      1-chloro-2-((((((2-chloroethyl)sulfanyl)methoxy)methyl)sulfanyl)ethane
      1-chloro-2-[([[(2-chloroethyl)sulfanyl]methoxy]methyl)sulfanyl]ethane
      1-Chlor-2-((((((2-chlorethyl)sulfanyl)methoxy)methyl)sulfanyl)ethan
      1-Chlor-2-[([[(2-chlorethyl)sulfanyl]methoxy]methyl)sulfanyl]ethan
      (German)
      1-Chlor-2-[({[(2-chlorethyl)sulfanyl]methoxy}methyl)sulfanyl]ethan
FS
     Harmonized Tariff Code: HTC; MEXICO: INSQ; Restricted Chemical Lists:
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RSTR; VIETNAM: VNECI
CBI
     Public
      6 CFR Part 27
CFR
     Harmonized Tariff Code: 293090
HTC
     EU Customs Code CN: 29309098
     On INSQ
TNV
       National Inventory of Chemical Substances in Mexico.
      On VNECI
       Vietnam Draft National Chemical Inventory.
RSTR VIETNAM: Law on Chemicals, Decree 113/2017/ND-CP, List of Banned
     Chemicals
     Listed Name(s): Sulfurmustards: / 2-Chloroethylchloromethylsulfide /
     Mustardgas:Bis(2-chloroethyl)sulfide / Bis(2-chloroethylthio)methane /
     Sesquimustard:1,2-Bis(2-chloroethylthio)ethane /
      1,3-Bis(2-chloroethylthio)-n-propane /
      1,4-Bis(2-chloroethylthio)-n-butane /
      1,5-Bis(2-chloroethylthio)-n-pentane / Bis(2-chloroethylthiomethyl)ether
      / O-Mustard:Bis(2-chloroethylthioethyl)ether
     THAILAND: Thailand Hazardous Substance List, Department of Industrial
     Works
     Listed Name(s): sulfur mustards bis 2-chloroethylthiomethyl ether
     Category: Type 4
     Registration Number: 28
      INTERNATIONAL: US Department of Energy Cross Reference for
     Export-Controlled Chemicals, International Edition, 2017
      Substances on this list include chemicals that are listed as specific
      substances in the control lists of the Australia Group (AG), Nuclear
      Suppliers Group (NSG), Missile Technology Control Regime (MTCR), and
      Wassenaar Arrangement (WA), as well as the Schedules of Chemicals in the
      Chemical Weapons Convention (CWC).
     HS 2017 Code: 2930.9
     EU Control List No(s).: ML7.b.2.a.8
             CAS Registry Number
FΑ
     RN
     INV
             Inventory Status
     HTC
             Harmonized Tariff Code
             Restricted Chemical Lists
     MISC
             Miscellaneous Regulations
==== Miscellaneous Regulations or Advisory Lists ====
MISC Miscellaneous Regulations
     U.S. Department of Homeland Security, Office of the Secretary, Chemical
     Facility Anti-Terrorism Standards, DHS Chemicals of Interest, 6 CFR 27
     Appendix A.
     Listed Name(s): Bis(2- chloroethylthiomethyl)ether
     Theft Minimum Concentration: CUM 100g
     Theft Screening Threshold Quantities: CUM 100g
     Security Issues: Theft - CWI/CWP
MISC Miscellaneous Regulations
     Internet: opcw.org (2015).
     This substance is listed in Schedule 1 Part A-Toxic Chemicals of the
     Chemical Weapons Convention (CWC). Facilities that produce and/or
     process and/or consume Scheduled chemicals may be subject to control,
     reporting mechanisms and inspection by the OPCW (Organisation for the
     Prohibition of Chemical Weapons)
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8156 CHEMLIST
ΑN
RN
     1338-23-4
     2-Butanone, peroxide (TSCA, IECSC, DSL, REACH, EINECS, ENCS, AIIC, PICCS,
CN
     NZIOC, INSQ, AREC, VNECI)
     Peroxyde de butan-2-one (French) (DSL)
     Reaction mass of butane-2,2-diyl dihydroperoxide and
     dioxydibutane-2,2-diyl dihydroperoxide (REACH)
     butanone-2, peroxyde (French) (EINECS)
      2-Butanon, Peroxid (German) (EINECS)
      2-butanona, peroxido (Spanish) (EINECS, INSQ)
     BUTAN-2-ONE PEROXIDE (PICCS)
     METHYL ETHYL KETONE PEROXIDE (PICCS, TDCA)
      2-Butanone peroxide
     808A
     Akperox A 1
     Akperox A 50
     Akperox A 60
     Akzo M 50
     Andonox CHM 50
     Andonox KP 9
     Andonox MCP 75
     Andonox MEC
     Andonox Pulcat Super
     Benox B 50
     Butanox 50
     Butanox LA
     Butanox LPT
     Butanox M 105
     Butanox M 50
     Butanox M 50A
     Butanox M 60
     Butanox V 388
     Cadox 50
     Cadox M 50a
     Cat-M
     Chaloxyd MEKP-HA 1
     Chaloxyd MEKP-LA 1
     Curox M 102
     DDM 9
     Delta X 9
     Diprometil LA 50R
     EPerox P
     Ethyl methyl ketone peroxide
     Ethylmethylketone peroxide
     F 534B
     FR 222
     Hi-Point 180
     Hi-Point 90
     Hi-Point PD 1
     Jiaying M 90
     Kayamek A
     Kayamek M
     Ketonox
     KP 100
     Lucidol DDM 9
     Lucidol Delta X
     Luperox DDM 9
     Luperox K 1
     Luperox K 12
     Luperox K 18
     Lupersol DDA 30
     Lupersol DDM
     Lupersol DDM 9
     Lupersol Delta X
     Lupersol Delta X 9
     Lupersol DHD 9
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Lupersol DNF

```
Lupersol DSW
      M 50
      M 90
      ME 50L
      MEK peroxide
      MEKP 9
      MEKP 925H
      MEKP-LA 3
      MEKP-M 60
      MEKP-NA 1
      MEKP-NR 20
      MEKP-WA 50
      MEKPO
      Mepox
      Mepox 55
      Mepoxe
      Methyl ethyl ketone hydroperoxide
      Metox 50
      Norox 925H
      Norox KP 925H
      Norox MCP 75
      Norox MEKP 925
      Norox MEKP 925H
      Norpol Peroxide 11
      Permec D 45
      Permek G
      Permek H
      Permek N
      Permek S
      Peroxan ME 50L
      Peroxan ME 60L
      Peroximon 41
      Peroximon K 4
      Promox P 211TX
      Superox 46-702
      Superox 46-710
      Superox 46-747
      Trigonox V 328
      Trigonox V 388
      TY-D
      Unicat 1000
      V 328
      V 388
      AUSTRALIA: AIIC; CANADA: DSL; CHINA: IECSC; EEC: EINECS; EU: REACH;
      Harmonized Tariff Code: HTC; JAPAN: ENCS; KOREA: AREC; MEXICO: INSQ;
      NEW ZEALAND: NZIOC; PHILIPPINES: PICCS; Restricted Chemical Lists: RSTR; TAIWAN: TCSI; THAILAND: TDCA; USA: ACGIH, CERCLA, DOT, NIOSH,
      OSHA, RCRA, STATE, TSCA; VIETNAM: VNECI
     Public
CBT
UVCB Peroxides
      29 CFR Part 1910; 40 CFR Part 261; 40 CFR Part 268; 40 CFR Part 302; 49
      CFR Part 172
      29 CFR 1910.119; 40 CFR 268.40; 40 CFR 302.4
RLN
      EC No.: 215-661-2; 700-954-4
      EINECS No.:
                     215-661-2
      ENCS No.:
                    5-667X
      AREC Serial No.:
                        KE-03883
      Harmonized Tariff Code: 290960
HTC
      EU Customs Code CN: 29096000
INV
      On TSCA Inventory
       August 2023 TSCA Inventory
        Commercial Status: Active.
      On IECSC
        Inventory of Existing Chemical Substances in China.
        Listed Name(s): 2-Butanone, peroxide; Methyl ethyl ketone peroxide
        Canada Domestic Substances List (DSL).
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FS

SC

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On REACH
        List of Registered Substances.
        2-Butanone, peroxide: https://echa.europa.eu/substance-information/-
        /substanceinfo/100.014.238
        Reaction mass of butane-2,2-diyl dihydroperoxide and
        dioxydibutane-2,2-diyl dihydroperoxide:
       https://echa.europa.eu/substance-information/-
        /substanceinfo/100.226.907
      On EINECS
       Annex to Official Journal of the European Communities, 15 June 1990.
      On ENCS
        Unlisted chemical name. For ENCS chemical class or category name,
        refer to ENCS No. 5-667.
      On ATTC
       Australian Inventory of Industrial Chemicals
       https://industrialchemicals.gov.au.
      On PICCS
        Philippines Inventory of Chemicals and Chemical Substances.
      On TCSI
        Taiwan Chemical Substance Inventory.
        Listed Name(s): 2-Butanone, peroxide
      On NZIoC
       New Zealand Inventory of Chemicals.
       HSNO Approval: HSR001376.
      On INSQ
       National Inventory of Chemical Substances in Mexico.
      On AREC
       Korean Act on Registration and Evaluation of Chemicals.
       Listed Name(s): 2-Butanone, peroxide
      On VNECI
       Vietnam Draft National Chemical Inventory.
      On TDCA
        Thailand Draft Chemicals Act.
        Chemical Group: Group CoC (chemicals of concern)
        Hazardous Substance Type: 3
       Chemical Code: 60-0-CoC
RSTR VIETNAM: Law on Chemicals, Decree 113/2017/ND-CP, List of Chemcials
     Subject to Compulsory Declaration
     Listed Name(s): Methyl ethyl ketone peroxide
     VIETNAM: Law on Chemicals, Decree 113/2017/ND-CP, List of Chemcials
     Which Require Developing Plan to Respond and Prevent Chemical Incident
     Listed Name(s): Methyl ethyl ketone peroxide (> 60%)
     THAILAND: Thailand Hazardous Substance List, Department of Industrial
     Listed Name(s): methyl ethyl ketone peroxide
      Category: Type 3
     Registration Number: 239
     SOUTH KOREA: AREC Toxic Substances List, 2021
     Toxic Chemical No.: 2021-1-1053
      Korean TCCL Designation: This substance and mixtures containing more than
     SOUTH KOREA: AREC Substances Requiring Preparation for Accidents List,
     Korean CCL Designation: This substance and mixtures containing more than
      25%.
      SOUTH KOREA: AREC Phase-in Substances Subject to Registration List, 2016
     Grace Period: 3 years from the notification date.
     JAPAN: Industrial Safety and Health Law (ISHL)
     This substance is defined as a Dangerous Substance, class: Explosive
      Substance in Appended Table 1 of the Enforcement Order of the Industrial
      Safety and Health Act.
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JAPAN: Industrial Safety and Health Law (ISHL), 2014
      Under Article 57-2 of the Law, it is required of the party transferring
      or providing this substance to include Safety Data Sheets (SDSs).
      PAKISTAN: List of Prescribed Hazardous Chemicals, 2003
      INDIA: List of Hazardous Chemicals, 2000
      Conc. 60%.
FA
             CAS Registry Number
     RLN
             Regulatory List Number
      TNV
             Inventory Status
     HTC
             Harmonized Tariff Code
     RSTR
             Restricted Chemical Lists
     IUR
             Inventory Update Rule
     CERHS
             CERCLA Hazardous Substances
             RCRA Land Disposal Restrictions
     LDR
     WSP
             RCRA Waste Specific Prohibitions
             DOT Hazardous Materials Table
     HAZT
             NIOSH Recommended Exposure Limits
     NREL
     HHC
             OSHA Highly Hazardous Chemicals (OSHA)
            European Community Legislation
     EECL
     WGK
             German Water Hazard Class Substance List
             Storage/Handling/Environment
     TRANS Transportation/Packaging/Labeling
     HTU
             Hazard, Toxicology, and Use Information (RTECS)
     HHAZ
             Health Hazards
     PROP
             Chemical/Physical Properties
     SIDS
             OECD Screening Information Data Set Project
     TLV
             ACGIH Threshold Limit Values
             Miscellaneous Regulations
     MISC
     MASS
             Massachusetts Right-to-Know
      SMN
             Minnesota Right-to-Know
     SNJ
             New Jersey Right-to-Know
             New York Hazardous Substances Release and Bulk Storage
     SNY
             Pennsylvania Right-to-Know
     SPA
      SRI
             State of Rhode Island Right-to-Know
 ==== U.S. EPA Regulations - TSCA ====
     Inventory Update Rule
     U.S. EPA Chemical Data Reporting (CDR) 2020,
     https://www.epa.gov/chemical-data-reporting/access-cdr-data#2343...
     This chemical was reported under the Chemical Data Reporting (CDR) for
      2020.
 ==== U.S. EPA Regulations - CERCLA ====
CERHS CERCLA Hazardous Substances
     U.S. EPA Comprehensive Environmental Response, Compensation and Liability
     Act (CERCLA) List of Hazardous Substances and Reportable Quantities 40
     CFR 302.4.
     Listed Name(s): Methyl ethyl ketone peroxide
     Final RQ: 10 pounds/4.54 kg
 ==== U.S. EPA Regulations - CERCLA ====
CERHS CERCLA Hazardous Substances
     U.S. EPA Comprehensive Environmental Response, Compensation and Liability
     Act (CERCLA) List of Hazardous Substances and Reportable Quantities 40
     CFR 302.4.
     Listed Name(s): 2-Butanone peroxide
     Final RQ: 10 pounds/4.54 kg
 ==== U.S. EPA Regulations - RCRA ====
     RCRA Land Disposal Restrictions
     U.S. EPA, Land Disposal Restrictions, Applicability of Treatment
     Standards, 40 CFR 268.40.
     Listed Name(s): Methyl ethyl ketone peroxide
     Waste Code(s): U160
     Waste description and treatment/Regulatory subcategory: Methyl ethyl
     ketone peroxide
      Wastewaters Technology Code(s): CHOXD; CHRED; CARBN; BIODG; or CMBST
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Nonwastewaters Technology Code(s): CHOXD; CHRED; or CMBST WSP RCRA Waste Specific Prohibitions U.S. EPA, Identification and Listing of Hazardous Waste, 40 CFR 261. Listed Name(s): 2-Butanone, peroxide Primary Hazardous Properties: Reactive Waste; Toxic Waste Hazard Waste Code: U160 WSP RCRA Waste Specific Prohibitions U.S. EPA, Identification and Listing of Hazardous Waste, 40 CFR 261. Listed Name(s): Methyl ethyl ketone peroxide Primary Hazardous Properties: Reactive Waste; Toxic Waste Hazard Waste Code: U160 WSP RCRA Waste Specific Prohibitions U.S. EPA, Identification and Listing of Hazardous Waste, 40 CFR 261. Listed Name(s): Methyl ethyl ketone peroxide Primary Hazardous Properties: Reactive Waste; Toxic Waste Hazard Waste Code: U160 WSP RCRA Waste Specific Prohibitions U.S. EPA, Identification and Listing of Hazardous Waste, 40 CFR 261. Listed Name(s): 2-Butanone, peroxide Primary Hazardous Properties: Reactive Waste; Toxic Waste Hazard Waste Code: U160 ==== U.S. DOT Regulations ==== HAZT DOT Hazardous Materials Table U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, 49 CFR 172. Listed Name(s): Methyl ethyl ketone peroxide, in solution with more than 9 percent by mass active oxygen Hazard Class/Division: Forbidden Explosives or Materials ==== U.S. NIOSH Regulations ==== NREL NIOSH Recommended Exposure Limits DHHS (NIOSH) Publication No. 92-100 Listed Name(s): MEKP Methyl ethyl ketone peroxide REL: 0.2 ppm (1.5 mg/m3) ceiling Health Effects: Eye and skin irritation; lung, liver, and kidney damage. ==== U.S. OSHA Regulations ==== HHC Highly Hazardous Chemicals Occupational Safety and Health Standards, List of Highly Hazardous Chemicals, Toxics and Reactives (Mandatory), 29 CFR 1910.119 Appendix A. Listed Name(s): Ethyl Methyl Ketone Peroxide (also Methyl Ethyl Ketone Peroxide; concentration >60%) Listing of toxic and reactive highly hazardous chemicals which present a potential for a catastrophic event at or above the threshold quantity Threshold Quantity: 5000 lbs ==== U.S. OSHA Regulations ==== Highly Hazardous Chemicals Occupational Safety and Health Standards, List of Highly Hazardous Chemicals, Toxics and Reactives (Mandatory), 29 CFR 1910.119 Appendix A. Listed Name(s): Methyl Ethyl Ketone Peroxide (concentration >60%) Listing of toxic and reactive highly hazardous chemicals which present a potential for a catastrophic event at or above the threshold quantity Threshold Quantity: 5000 lbs ==== Classification, Labeling, and Packaging Regulations ==== EECL European Community Legislation Official Journal of the European Union, No L 21 #59:83 (28 Jan 2016). Effective date: 17 FEB 2016. Commission Implementing Decision (EU) 2016/108 of 27 January 2016 not approving 2-Butanone as an existing active substance for use in biocidal products for product-types 1 and 2. This substance is classified as an active biocidal product regulated via Directive 98/8/EC and Regulation (EU) No 528/2012 concerning the placing on the market and use of such products. Uses for biocidal product-types 1 and 2 are not approved.

Official Journal of the European Union, No L 291 #53:47 (09 Nov 2010). Commission Decision of 08 November 2010 concerning the non-inclusion of certain substances in Annex I, IA or IB to Council Directive 98/8/EC of the European Parliament and of the Council concerning the placing of

EECL European Community Legislation

CHEMLIST/HCHEMLIST

biocidal products on the market. This substance is not to be included in Annexes I, IA or IB to Directive 98/8/EC with regard to certain product types.

EECL European Community Legislation

Official Journal of the European Union, No L 325 (11 Dec 2007). Publication of Council Directive 98/8/EC Article 16(2) concerning the placing of biocidal products on the market. This substance is included in Annex I; classified as an existing active substance in biocidal products in accordance with the requirements of Article 3(1) or 5(2) of Regulation (EC) No 1896/2000.

WGK German Water Hazard Class Substance List

German Water Hazard Class Substance List

Ordinance on Installations for Handling Substances Hazardous to Wastewater (AwSV).

This substance has been designated with a water hazard classification under ordinance on Installations for Handling Substances Hazardous to Wastewater

Listed Name(s): Methylethylketonperoxid (33 %iges Gemisch mit Phthalsauredimethylester)

Kenn Number: 1108

State of Classification: Slight water hazard

German Water Hazard Classification (WGK) Number: 1.

==== Miscellaneous Regulations or Advisory Lists ====

STOR Storage/Handling/Environment

Internet: cdc.gov/niosh/ipcs (03 Oct 2007).

Spillage Disposal: Chemical protection suit including self-contained breathing apparatus. Collect leaking and spilled liquid in sealable plastic containers as far as possible. Do NOT absorb in sawdust or other combustible absorbents.

Storage: Store only if stabilized. Well closed.

TRANS Transportation/Packaging/Labeling

Internet: cdc.gov/niosh/ipcs (03 Oct 2007).

UN Hazard Class: 5.2

UN Subsidiary Risks: 1 and 8

UN Packing Group: II.

HTU Hazard, Toxicology, and Use Information

Human Data

Skin / Eye Irritant

Tumor data (RTECS)

HHAZ Health Hazards

Internet: cdc.gov/niosh/ipcs (03 Oct 2007).

Occupational exposure limits: TLV: 0.2 ppm (Ceiling value.) MAK not established. NIOSH REL: C 0.2 ppm (1.5 mg/m 3).

Routes of Exposure: The substance can be absorbed into the body by inhalation and by ingestion.

Inhalation Risk: A harmful concentration of airborne particles can be reached quickly when dispersed.

Effects of Short-Term Exposure: The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. RTECS No: EL9450000.

PROP Chemical/Physical Properties

Internet: cdc.gov/niosh/ipcs (03 Oct 2007).

Physical State; Appearance: Colorless liquid, with pungent odor. Chemical Dangers: Heating may cause violent combustion or explosion. On combustion, forms toxic and corrosive gases. The substance is a strong oxidant and reacts violently with combustible and reducing materials, amines, metals, strong acids, strong bases, causing fire and explosion hazard.

Boiling point (decomposes): >80°C

Relative density (water = 1): 1.10-1.17

Solubility in water: very poor.

SIDS OECD Screening Information Data Set Project

OECD SIDS Chemicals Internet: oecd.org/chemicalsafety (Feb 2002). The Screening Information Data Set (SIDS) program operated under the auspices of the Organization for Economic Cooperation and Development (OECD) is a voluntary cooperative international testing program that began in 1989. The SIDS program is focused on developing base level test

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information on approximately 600 poorly characterized international HPV chemicals. The SIDS data are used to "screen" the chemicals and set priorities for further testing or risk assessment/management activities. This substance is an HPV chemical for which a SIDS is available.

TT.37 ACGIH Threshold Limit Values

American Conference of Governmental Industrial Hygienists Threshold Limit Values and Biological Exposure Indices for 1999 Listed Name(s): Methyl ethyl ketone peroxide Ceiling (0.2 ppm)

MISC Miscellaneous Regulations

Chem. Regul. Rep. 28 #12:344 (22 Mar 2004).

The Resource Conservation and Recovery Act and the Hazardous Materials Transportation Uniform Safety Act were possibly violated by three Idaho men including the former owner of Ponderosa Paint. It is alleged that the men were storing hazardous waste in rusted and leaking drums.

==== U.S. State Regulations ====

Massachusetts Right-to-Know

Massachusetts Substance List for Right-to-Know Law..

Listed Name(s): 2-Butanone peroxide; Methyl ethyl ketone peroxide.

SMN Minnesota Right-to-Know

> Minnesota's Toxic Free Kids Act Chemicals of High Concern, Minnesota Department of Health, https://www.health.state.mn.us/.

Listed Name(s): Methyl ethyl ketone peroxide.

Minnesota Right-to-Know SMN

Minnesota's List of Hazardous Substances, Minnesota Department of Labor

and Industry, https://www.dli.mn.gov.

Listed name(s): methyl ethyl ketone peroxide

Hazard code(s): AO.

New Jersey Right-to-Know SNJ

> New Jersey Right to Know Hazardous Substance List, New Jersey Department of Health.

Listed Name(s): 2-Butanone, Peroxide; Methyl Ethyl Ketone Peroxide Special Health Hazard(s): Reactive - 4th degree

SNY New York Hazardous Substances Release and Bulk Storage

Hazardous Substances Identification, Release Prohibition, And Release Reporting, New York Department of Environmental Conservation.

Listed Name(s): 2-Butanone peroxide; Methyl ethyl ketone peroxide

RQ Air (pounds): 10

RQ Land/Water (pounds): 1

Notes: Acutely Hazardous Substance

SPA Pennsylvania Right-to-Know

Pennsylvania Department of Labor and Industry Hazardous Substance List.

Listed Name(s): 2-BUTANONE, PEROXIDE

Special Health Hazard Code(s): (E) Environmental Hazard

SRI State of Rhode Island Right-to-Know

Rhode Island Hazardous Substance List..

Listed name(s): Ethyl methyl ketone peroxide

SRI State of Rhode Island Right-to-Know

Rhode Island Hazardous Substance List..

Listed name(s): Methyl ethyl ketone peroxide

In North America

CAS Customer Center: P.O. Box 3012 Columbus, Ohio 43210-0012 U.S.A

800-753-4227 (North America) Phone: 614-447-3731 (worldwide)

E-mail: help@cas.org Internet: www.cas.org

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