

Permeation Guide for DuPont™ Tychem® Protective Fabrics. *Effective June 2004.*
CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

The Permeation Data Table shows test results for certain tested (T) chemicals in associated subclasses as defined in ASTM F1186. For chemicals not tested (nt), the chemical subclass number is provided so users may view test results for tested chemicals in that subclass. Prediction of chemical resistance of a material from data on other chemicals has not been successful. However, when data is unavailable information on related chemicals within a sub-class may at least rank alternative chemical protective materials as to their probable chemical resistance.

Chemical Name	Name in Data Table (if Synonym)	CAS Number	Class	Sub-Class	Limited Use	Re-usable	Chemical Name	Name in Data Table (if Synonym)	CAS Number	Class	Sub-Class	Limited Use
Acetaldehyde		75-07-0	120	121	T	nt	Aluminum sulfate hydrate		17927-65-0	340	340	T
Acetamide		60-35-5	130	132	nt	nt	Aminobutane	sec-Butylamine	13952-84-6	140	141	T
Acetic acid		64-19-7	100	102	T	T	2-Aminoethanol	Ethanolamine	141-43-5	140 / 310	141 / 311	T
Acetic anhydride		108-24-7	160	161	T	nt	2-Aminopropane	Isopropylamine	75-31-0	140	141	T
Acetone		67-64-1	390	391	T	T	2-Aminopyridine		504-29-0	270	271	T
Acetone cyanohydrin		75-86-5	310 / 430	313 / 431	T	T	Ammonia gas		7664-41-7	350	350	T
Acetonitrile		75-05-8	430	431	T	T	Ammonia liquid		7664-41-7	350 / 380	350 / 380	T
Acetophenone		98-86-2	390	392	T	nt	Ammonia solution	Ammonium hydroxide	1336-21-6	380	380	T
Acetoxyethane	Ethyl acetate	141-78-6	220	222	T	T	Ammonium acetate		631-61-8	340	340	nt
Acetyl bromide		506-96-7	110	111	T	nt	Ammonium chloride		12125-02-9	340	340	T
Acetyl chloride		75-36-5	110	111	T	nt	Ammonium fluoride		12125-01-8	340	340	T
Acetylene dichloride	trans-1,2-Dichloroethylene	156-60-5	260	261	T	nt	Ammonium hydroxide		1336-21-6	380	380	T
Acridine		260-94-6	290	293	nt	nt	Ammonium sulfate		7783-20-2	340	340	nt
Acrolein		107-02-8	120	121	T	nt	Ammonium sulfide		12135-76-1	340	340	nt
Acrylamide		79-06-1	130	135	T	nt	n-Amyl acetate		628-63-7	220	222	T
Acrylic acid		79-10-7	100	102	T	T	Iso-amyl alcohol	Isoamyl alcohol	123-51-3	310	312	T
Acrylic acid butyl ester	n-Butyl acrylate	141-32-2	220	223	T	nt	Aniline		62-53-3	140	145	T
Acrylic acid ethyl ester	Ethyl acrylate	140-88-5	220	223	T	nt	Anisoyl chloride		100-07-2	110 / 240	112 / 243	nt
Acrylic acid methyl ester	Methyl acrylate	96-33-3	220	223	T	nt	Anthracene		120-12-7	290	293	T
Acrylonitrile		107-13-1	430	431	T	T	Antimony pentachloride		7647-18-9	360	360	T
Adipic acid		124-04-9	100	104	nt	nt	Antimony pentafluoride		7783-70-2	360	360	nt
Adiponitrile		111-69-3	430	431	T	nt	Antimony trichloride		10025-91-9	340	340	nt
AFFF		191681-14-8	590	590	T	nt	Arsenic acid		7778-39-4	370	370	nt
Allyl alcohol		107-18-6	310	311	T	T	Arsenic pentoxide		1303-28-2	365	365	nt
Allylamine		107-11-9	140	141	nt	nt	Arsenic trichloride		7784-34-1	340	340	T
Allyl bromide		106-95-6	260	265	nt	nt	Arsenic trioxide		1327-53-3	365	365	nt
Allyl chloride		107-05-1	260	265	T	nt	Arsine		7784-42-1	350	350	T
Allyl glycidyl ether		106-92-3	270	275	nt	nt	Azinphos	Azinphos ethyl	2642-71-9	460	462	nt
Alphamethyl-	1-Phenylethanol	98-85-1	310	318	T	nt	Azinphos ethyl		2642-71-9	460	462	nt
Aluminum chloride		7446-70-0	360	360	T	nt	Barium cyanide		542-62-1	345	345	nt
Aluminum fluoride		7784-18-1	360	360	nt	nt	Benzaldehyde		100-52-7	120	122	T
Aluminum hydroxide		21645-51-2	380	380	nt	nt	1,2-Benzanthracene		56-55-3	290	293	nt
Aluminum nitrate		13473-90-0	340	340	nt	nt	Benzene		71-43-2	290	292	T
Aluminum phosphate		7784-30-7	340	340	nt	nt	1,3-Benzenediol		108-46-3	310	316	nt
							Benzene acetonitrile	Benzyl Cyanide	140-29-4	430	432	T

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Aluminum sulfate		10043-01-3	340	340	nt	nt	Benzene hexachloride	Lindane	58-89-9	260	261	T
Benzene sulfonyl chloride		98-09-9	500	505	T	nt	Bromine pentafluoride		7789-30-2	360	360	nt
Benzeneethanol	2-Phenylethyl Alcohol	60-12-8	310	318	T	nt	Bromoacetonitrile		590-17-0	430	431	nt
Benzenethiol	Phenyl mercaptan	108-98-5	500	501	T	nt	Bromobenzene		108-86-1	260	263	nt
Benzidine		92-87-5	140	145 / 149	T	nt	Bromochloromethane		74-97-5	260	261	T
Benzonitrile		100-47-0	430	432	T	nt	2-Bromoethanol		540-51-2	260 / 310	261 / 315	nt
Benzophenanthrene		129-00-0	290	293	nt	nt	4-Bromofluorobenzene		460-00-4	260	263	T
1,2-Benzophenanthrene		218-01-9	290	293	nt	nt	Bromomethane	Methyl bromide	74-83-9	260	261	T
Benzo[a]pyrene		50-32-8	290	292 / 293	T	nt	1-Bromo propane		106-94-5	310	315	nt
Benzotrichloride		98-07-7	260	263	T	nt	1-Bromo-2-propanol		19686-73-8	260 / 310	261 / 315	nt
Benzoyl chloride		98-88-4	110	112	T	nt	3-Bromo-1-propanol		627-18-9	260 / 310	261 / 315	nt
Benzyl acetate		140-11-4	220	222	nt	nt	1,3-Butadiene		106-99-0	290	296	T
Benzyl alcohol		100-51-6	310	312	T	nt	1,4-Butanediol		110-63-4	310	314	T
Benzyl benzoate		120-51-4	220	226	nt	nt	1,4-Butanediol diglycidyl ether		2425-79-8	270	275	nt
Benzyl bromide		100-39-0	260	266	nt	nt	n-Butane		106-97-8	290	291	nt
Benzyl chloride		100-44-7	260	266	T	nt	1,4-Butanesultone		1633-83-6	500	503	nt
Benzyl chloroformate		501-53-1	110	113	T	nt	n-Butanethiol		109-79-5	500	501	nt
Benzyl Cyanide		140-29-4	430	432	T	nt	1-Butanol	n-Butanol	71-36-3	310	311	T
Benzyl Nitrile	Benzyl Cyanide	140-29-4	430	432	T	nt	n-Butanol		71-36-3	310	311	T
Beta-Phenethyl Alcohol	2-Phenylethanol	60-12-8	310	318	T	nt	2-Butanone	Methyl ethyl ketone	78-93-3	390	391	T
Beta-Chloroprene	2-Chloro-1,3-butadiene	126-99-8	260	264	T	nt	2-Butanone peroxide		1338-23-4	300	300	nt
Bicyclo[2.2.1]hept-5-en-2-ol	5-Norbornene-2-yl acetate	6143-29-9	220	222	T	nt	Butene		106-98-9	290	294	nt
4,4'-bis (Aminophenyl) methane	4,4'-Methylene dianiline	101-77-9	140	145 / 149	T	nt	2-Butoxyethanol	Butyl Cellosolve®	111-76-2	240	245	T
Bis (2-chloroethyl) sulfide	Sulfur mustard	505-60-2	500 / 595	502 / 595	T	nt	2-Butoxyethyl acetate		112-07-2	240	245	nt
Bis(chloromethyl) ether		542-88-1	240 / 260	241 / 261	nt	nt	n-Butyl acetate		123-86-4	220	222	T
Bis(chloromethyl) ketone	1,3 Dichloroacetone	534-07-6	260 / 390	261 / 391	T	nt	n-Butyl acrylate		141-32-2	220	223	T
Bis(2-ethylhexyl) phthalate	Di (2-ethylhexyl) phthalate	117-81-7	220	226	T	nt	n-Butyl alcohol	n-Butanol	71-36-3	310	311	T
Bisphenol A		80-05-7	310	316	nt	nt	sec-Butyl alcohol		78-92-2	310	312	nt
Bisphenol-A diglycidyl ether		1675-54-3	270	275	T	nt	tert-Butyl alcohol		75-65-0	310	313	T
Bis(tributyltin)oxide		56-35-9	470	470	nt	nt	n-Butylamine		109-73-9	140	141	T
Black Liquor		308074-23-9	590	590	T	T	sec-Butylamine		13952-84-6	140	141	nt
Bladex®		21725-46-2	270 / 430	274 / 431	nt	nt	tert-Butylamine		75-64-9	140	141	T
Borane pyridine complex		110-51-0	590	590	T	T	n-Butyl benzoate		136-60-7	220	226	nt
Boric acid		10043-35-3	370	370	nt	nt	Butyl benzyl phthalate		85-68-7	220	226	nt
Boron trichloride		10294-34-5	350 / 360	350 / 360	T	nt	n-Butyl Carbitol®		112-34-5	240	245	nt
Boron trifluoride		7637-07-2	350 / 360	350 / 360	T	nt	4-tert-Butyl catechol		98-29-3	310	316	T
							Butyl Cellosolve® acetate		112-07-2	240	245	nt

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Boron trifluoride diethyl etherate	Boron trifluoride etherate	109-63-7	590	590	T	nt	n-Butyl chloride		109-69-3	260	261	nt
Boron trifluoride etherate		109-63-7	590	590	T	nt	CFC 113	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	260	261	T
Boron trifluoride		353-42-4	590	590	T	nt	Chemidize 727 ND	mixture		590	590	T
Bromine		7726-95-6	330	330	T	T	Chlordane		57-74-9	260	261	T
Bromine cyanide	Cyanogen bromide	506-68-3	345 / 350	345 / 350	nt	T	Chlorine		7782-50-5	330 / 350	330 / 350	T
1,3-Butylene glycol		107-88-0	310	314	nt	nt	Chlorine cyanide		506-77-4	345	345	nt
1,2-Butylene oxide		106-88-7	270	275	T	nt	Chlorine dioxide		10049-04-4	350	350	T
n-Butyl ether		142-96-1	240	241	T	nt	Chlorine oxide	Chlorine dioxide	10049-04-4	350	350	T
Butyl glycol	Butyl Cellosolve®	111-76-2	240	245	T	nt	Chlorine sulfide	Sulfur dichloride	10545-99-0	500	502	T
n-Butyl mercaptan		109-79-5	500	501	nt	nt	Chlorine trifluoride		7790-91-2	350	350	T
tert-Butyl mercaptan		75-66-1	500	501	nt	nt	2-Chloroacetaldehyde		107-20-0	120 / 260	121 / 261	nt
tert-Butyl methyl ether	Methyl tert-butyl ether	1634-04-4	240	241	T	nt	Chloroacetic acid		79-11-8	100	103	T
o-sec-Butylphenol		89-72-5	310	316	nt	nt	Chloroacetone		78-95-5	390	391	T
p-tert-Butylphenol		98-54-4	310	316	nt	nt	Chloroacetonitrile		107-14-2	260 / 430	261 / 431	nt
n-Butyl phthalate		84-74-2	220	226	nt	nt	Chloroacetophenone		532-27-4	260 / 390	261 / 392	T
Butyl Cellosolve®		111-76-2	240	245	T	nt	Chloroacetyl chloride		79-04-9	110	111	T
n-Butyraldehyde		123-72-8	120	121	T	nt	Chloroacrylonitrile		920-37-6	260 / 430	264 / 431	T
n-Butyric acid		107-92-6	100	102	T	nt	4-Chloroaniline	p-Chloroaniline	106-47-8	140	145	T
Butyrolactone, gamma-		96-48-0	220	225	T	nt	o-Chloroaniline		95-51-2	140	145	nt
Cadaverine		462-94-2	140	148	nt	nt	p-Chloroaniline		106-47-8	140	145	T
Cadmium fluoroborate		14486-19-2	360	360	nt	nt	Chlorobenzene		108-90-7	260	263	T
Calcia		1305-78-8	380	380	nt	nt	4-Chlorobenzotrifluoride		5216-25-1	260	263	T
Calcium bisulfate		13780-03-5	340	340	nt	nt	4-Chlorobenzotrifluoride		98-56-6	260	263	T
Calcium carbonate		1317-65-3	340	340	nt	nt	2-Chloro-1,3-butadiene		126-99-8	260	264	T
Calcium chloride		10043-52-4	340	340	T	nt	4-Chloro-m-cresol		59-50-7	260 / 310	263 / 316	nt
Calcium cyanide		592-01-8	345	345	nt	nt	Chloro Methyl Sulfone	Methanesulfonyl Chloride	124-63-0	500	505	T
Calcium fluoride		7789-75-5	340	340	nt	nt	Chlorodecane mixed isomers		28519-06-4	260	261	nt
Calcium hydroxide		1305-62-0	380	380	nt	nt	Chlorododecane		112-52-7	260	261	nt
Calcium oxide		1305-78-8	380	380	nt	nt	2-Chloroethanol		107-07-3	260 / 310	261 / 315	T
Carbitol®	Ethylene diglycol monoethyl ether	111-90-0	240	245	T	nt	2-(2-Chloroethenyl) arsenous dichloride	Lewisite	541-25-3	470 / 595	470 / 595	T
Carbolic acid	Phenol	108-95-2	310	316	T	T	2-Chloroethyl ether	Dichloroethyl ether	111-44-4	240 / 260	241 / 261	T
Carbon disulfide		75-15-0	500	502	T	T	2-Chloroethyl vinyl ether		110-75-8	240 / 260	241 / 261	nt
Carbon hexachloride		67-72-1	260	261	nt	nt	Chloroform		67-66-3	260	261	T
Carbon monoxide		630-08-0	350	350	T	nt	Chloromethane	Methyl chloride	74-87-3	260	261	T
Carbon tetrabromide		558-13-4	260	261	nt	nt						

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Carbon tetrachloride		56-23-5	260	261	T	nt	Chloromethyl methyl ether		107-30-2	240	241	T
Carbonyl chloride	Phosgene	75-44-5	350	350	T	T	3-Chloro-2-methylpropene		563-47-3	260	265	nt
Caustic soda	Sodium hydroxide	1310-73-2	380	380	T	T	Cumene peroxide		80-43-3	300	300	nt
Cellosolve®	Ethyl Cellosolve®	110-80-5	240	245	T	nt	Cupric sulfate		7758-98-7	340	340	nt
Cellosolve® acetate	Ethyl Cellosolve® acetate	111-15-9	240	245	T	nt	Cuprous cyanide		544-92-3	345	345	nt
CFC 11		75-69-4	260	261	nt	nt	Cyanamide		420-04-2	345	345	nt
2-Chlorophenol		95-57-8	260 / 310	263 / 316	nt	nt	Cyanex®		mixture	460	461	nt
3-Chlorophenol		108-43-0	260 / 310	263 / 316	nt	nt	Cyanide	Hydrogen cyanide	74-90-8	345 / 370	345 / 370	T
4-Chlorophenol		106-48-9	260 / 310	263 / 316	T	nt	Cyanizine		21725-46-2	270 / 430	274 / 431	nt
o-Chlorophenol		95-57-8	260 / 310	263 / 316	nt	nt	Cyanoacetic acid		372-09-8	100	103	nt
p-Chlorophenol	4-Chlorophenol	106-48-9	260 / 310	263 / 316	T	nt	Cyanogen		460-19-5	345	345	nt
Chlorophenol, mixture of 2-, 3-, 4-		mixture	260 / 310	263 / 316	nt	nt	Cyanogenamide		420-04-2	345	345	nt
Chloropicrin		76-06-2	260	261	T	nt	Cyanogen bromide		506-68-3	345 / 350	345 / 350	nt
Chloroprene	2-Chloro-1,3-butadiene	126-99-8	260	264	T	nt	Cyanogen bromide 30%		mixture	345 / 350	345 / 350	nt
1-Chloropropane		540-54-5	260	261	nt	nt	Cyanogen chloride		506-77-4	345	345	nt
1-Chloro-2-propanol		127-00-4	260 / 310	261 / 315	nt	nt	Cyanomethylbenzene	Benzyl Cyanide	140-29-4	400	432	T
3-Chloro-1-propanol		627-30-5	260 / 310	261 / 315	nt	nt	Cyanuric chloride		108-77-0	260 / 270	263 / 274	T
3-Chloropropene	Allyl chloride	107-05-1	260	265	T	nt	Cyclohexane		110-82-7	290	291	T
3-Chloropropionitrile		542-76-7	260 / 430	261 / 431	nt	nt	Cyclohexanol		108-93-0	310	312	nt
Chloropyrifos		2921-88-2	460	462	T	nt	Cyclohexanone		108-94-1	390	391	T
Chlorosulfonic acid		7790-94-5	370 / 500	370 / 504	T	T	Cyclohexylamine		108-91-8	140	141	T
a-Chlorotoluene	Benzyl chloride	100-44-7	260	266	T	nt	Cyclohexyl isocyanate		3173-53-3	210	211	T
o-Chlorotoluene		95-49-8	260	263	T	nt	Cyclonol		116-02-9	310	312	nt
2-Chlorovinylarsine dichloride	Lewisite	541-25-3	470 / 595	470 / 595	T	nt	Cyclooctadiene		1552-12-1	290	296	T
Chromic acetate		1066-30-4	550	550	nt	nt	Cyclopentane		287-92-3	290	291	nt
Chromic acid		1333-82-0	370	370	T	T	p-Cymene		25155-15-1	290	292	nt
Chromic anhydride	Chromic acid	1333-82-0	370	370	T	nt	Decahydronaphthalene		91-17-8	290	291	nt
Chromic sulfate		10101-53-8	340	340	nt	nt	n-Decanal		112-31-2	120	121	nt
Chromium oxide	Chromic acid	1333-82-0	370	370	T	nt	Decane		124-18-5	290	291	nt
Chrysene		218-01-9	290	293	nt	nt	Decontaminating agent DS-2		mixture	590	590	T
Citric acid		77-92-9	100	104	nt	nt	n-Decyl aldehyde		112-31-2	120	121	nt
Coal naphtha	Benzene	71-43-2	290	292	T	nt	Diallylamine		124-02-7	140	142	nt
Copper cyanide		544-92-3	345	345	nt	nt	p,p'-Diaminodiphenyl methane	4,4'-Methylene dianiline	101-77-9	140	145 / 149	T
Creosote		8001-58-9	310	316	T	nt	Di-n-amylamine		2050-92-2	140	142	nt
Cresol, mixed isomers		1319-77-3	310	316	T	nt	Diazinon		333-41-5	460	462	T
m-Cresol		108-39-4	310	316	nt	nt	Diborane		19287-45-7	350	350	T

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m-Cresol 55%, p-Cresol 30%, Phenol 15%		mixture	310	316	T	nt	1,4-Dibromobutane		110-52-1	260	261	nt
o-Cresol		95-48-7	310	316	T	nt	1,2-Dibromo-3-chloropropane		96-12-8	260	261	T
trans-Crotonaldehyde		123-73-9	120	121	T	nt	Dichlorotriazine 20%, Toluene 80%		mixture	260	263	T
Crude oil		8002-05-9	290 / 590	294 / 590	T	nt	Diesel fuel		68334-30-5	290	291	T
Cumene		98-82-8	290	292	T	nt	Diesel automotive test fuel		mixture	290	291	T
1,2-Dibromoethane	Ethylene dibromide	106-93-4	260	261	T	nt	Diethanolamine		111-42-2	140	142	T
Dibromomethane		74-95-3	260	261	nt	nt	Diethylamine		109-89-7	140	142	T
Di-n-butylamine		111-92-2	140	142	nt	nt	Diethylaniline crude		91-66-7	140	146	T
Dibutyl ether	n-Butyl ether	142-96-1	240	241	T	nt	Diethyl arsine		692-42-2	470	470	nt
Dibutylphenol		26746-38-3	310	316	nt	nt	Diethyl carbonate		105-58-8	230	233	nt
Dibutyl phthalate		84-74-2	220	226	nt	nt	2,2'-Diethyldihexylamine		106-20-7	140	142	nt
Dichloroacetic acid		79-43-6	100	103	nt	nt	1,4-Diethylenediamine		110-85-0	270	274	nt
1,3-Dichloroacetone		534-07-6	260 / 390	261 / 391	T	nt	Diethylene dioxide	1,4-Dioxane	123-91-1	270	278	T
Dichloroacetyl chloride		79-36-7	110	111	T	nt	Diethylene glycol		111-46-6	310	314	nt
Dichloroacetylene	trans-1,2-Dichloroethylene	156-60-5	260	264	T	nt	Diethylene glycol monomethyl ether		111-77-3	240	245	nt
3,4-Dichloroaniline		95-76-1	140 / 260	145 / 263	T	nt	Diethylenetriamine		111-40-0	140	148	T
1,2-Dichlorobenzene		95-50-1	260	263	nt	nt	N,N-Diethylethanolamine		100-37-8	140	143	nt
3,3'-Dichlorobenzidine		91-94-1	140 / 260	149 / 263	nt	nt	Diethyl ether	Ethyl ether	60-29-7	240	241	T
1,4-Dichloro-2-butene		110-57-6	260	264	T	nt	Di (2-ethylhexyl) phthalate		117-81-7	220	226	T
trans-1,4-Dichloro-2-butene		764-41-0	260	264	T	nt	Diethylhydrazine		1615-80-1	280	280	nt
1,1-Dichloroethane		75-34-3	260	261	nt	nt	Diethyl phthalate		84-66-2	220	226	nt
1,2-Dichloroethane		107-06-2	260	261	T	nt	Diethyl sulfate		64-67-5	500	507	T
1,2-Dichloroethene	1,2-Dichloroethylene	540-59-0	260	264	nt	T	Diethyl-m-toluidine crude		91-67-8	140	145	T
1,1-Dichloroethylene	Vinylidene chloride	75-35-4	260	264	T	nt	Dihydrogen Oxide		7732-18-5	590	590	nt
1,2-Dichloroethylene		540-59-0	260	264	nt	T	1,4-Diiodo-1,1,2,2-		755-95-3	260	261	T
Dichloroethylene, all isomers		25323-30-2	260	264	nt	nt	Diisobutylamine		111-92-2	140	142	nt
trans-1,2-Dichloroethylene		156-60-5	260	261	T	nt	Diisobutyl ketone		108-83-8	390	391	nt
Dichloroethyl ether		111-44-4	240 / 260	241 / 261	T	nt	Diisobutyl phthalate		84-69-5	220	226	nt
Dichloroisopropyl ether		108-60-1	240 / 260	241 / 261	nt	nt	1,6-Diisocyanatohexane	1,6-Hexamethylene diisocyanate	822-06-0	210	211	T
2,3-Dichloro-6-isopropyl-S-triazine		30894-74-7	270	274	T	nt	Diisopropylamine		108-18-9	140	142	nt
Dichloromethane		75-09-2	260	261	T	T	Dimethoxane		828-00-2	270	278	nt
sym-Dichloromethyl ether		542-88-1	240 / 260	241 / 261	nt	nt	N,N-Dimethylacetamide		127-19-5	130	132	T
2,4-Dichlorophenol		120-83-2	260 / 310	263 / 316	nt	nt	Dimethylamine		124-40-3	140	142	T
1,2-Dichloropropane	Propylene dichloride	78-87-5	260	261	T	nt	2-Dimethyl aminoethanol		108-01-0	140	143	nt
1,3-Dichloro-2-propanone	1,3 Dichloroacetone	534-07-6	260 / 390	261 / 391	T	nt						

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1,3-Dichloropropene		542-75-6	260	261	T	nt	3-Dimethyl aminopropylamine		109-55-7	140	148	nt
2,3-Dichloropropene		78-88-6	260	261	T	nt	N,N-Dimethylaniline		121-69-7	140	146	T
Dichlorosilane		4109-96-0	480	480	T	nt	1,3-Dimethyl butylamine		108-09-8	140	143	nt
Dichlorosulfane	Sulfur dichloride	10545-99-0	500	502	T	nt	tert-Dodecyl mercaptan		25103-58-6	500	501	nt
1,1-Dichlorotetrafluoroethane		374-07-2	260	261	T	nt	Dowtherm A		8004-13-5	590	590	T
Dimethyldichlorosilane		75-78-5	480	480	T	nt	DuPont Activators with hexamethylene diisocyanate	mixture	210 / 590	211 / 590	T	
Dimethyl disulfide		624-92-0	500	502	T	nt	Epibromohydrin		3132-64-7	270	275	nt
Dimethylene oxide	Ethylene oxide	75-21-8	270	275	T	T	Epichlorohydrin		106-89-8	260 / 270	261 / 275	T
Dimethyl ether		115-10-6	240	241	T	nt	1,2-Epoxybutane		106-88-7	270	275	nt
N,N-Dimethylformamide		68-12-2	130	132	T	T	1,2-Epoxyethane	Ethylene oxide	75-21-8	270	275	T
1,1-Dimethylhydrazine		57-14-7	280	280	T	nt	Epoxypropane	1,2-Propylene oxide	75-56-9	270	275	T
Dimethyl maleate		624-48-6	220	224	T	nt	1,2-Epoxy-3-(toloxo)propane		26447-14-3	270	275	nt
Dimethylmorpholine		141-91-3	140	142	nt	nt	Epoxytrichloropropane		67664-94-2	270	275	nt
Dimethyl nitrosamine		62-75-9	450	450	T	nt	2,3-epoxy-2,3-dimethylbutane	Tetramethylethylene oxide	5076-20-0	270	275	T
2,4-Dimethylphenol		105-67-9	310	316	nt	nt	Epsom salts		7487-88-9	340	340	nt
Dimethylphenylamine		1300-73-8	140	145	nt	nt	Ethanal	Acetaldehyde	75-07-0	120	121	T
Dimethyl phthalate		131-11-3	220	226	nt	nt	Ethanol		64-17-5	310	311	T
Dimethyl sulfate		77-78-1	500	507	T	T	Ethanolamine		141-43-5	140 / 310	141 / 311	T
Dimethyl sulfide		75-18-3	500	502	T	nt	2-Ethoxyethanol	Ethyl Cellosolve®	110-80-5	240	245	T
Dimethyl sulfoxide		67-68-5	500	503	T	nt	2-(2-Ethoxyethoxy) ethanol	Ethylene diglycol monoethyl ether	111-90-0	240	245	T
Dimethyl terephthalate		120-61-6	220	226	nt	nt	2-Ethoxyethyl acetate	Ethyl Cellosolve® acetate	111-15-9	240	245	T
Dimethylvinyl chloride		513-37-1	260	264	nt	nt	Ethyl acetate		141-78-6	220	222	T
Dinitro-o-cresol		534-52-1	310 / 440	316 / 442	T	nt	Ethyl acetoacetate		141-97-9	220	222	nt
Dinitrophenol		25550-58-7	310 / 440	316 / 442	nt	nt	Ethyl acrylate		140-88-5	220	223	T
Di-n-octyl phthalate		117-84-0	220	226	nt	nt	Ethyl alcohol	Ethanol	64-17-5	310	311	T
1,4-Dioxane		123-91-1	270	278	T	nt	Ethylamine		75-04-7	140	141	T
Dioxin		1746-01-6	260	263	nt	nt	Ethyl benzene		100-41-4	290	290	T
1,3-Dioxolane		646-06-0	240	241	nt	nt	Ethyl benzene 80%, 4,6-Dinitro-o-cresol 20%	mixture	590	590	T	
Dipentene		138-86-3	290	296	nt	nt	Ethyl benzene hydroperoxide		3071-32-7	300	300	T
Dipentyl amine		2050-92-2	140	142	nt	nt	Ethyl benzoate		93-89-0	220	226	nt
Diphenylamine		122-39-4	140	146	nt	nt	2-Ethylbutylamine		617-79-8	140	141	nt
4,4'-Diphenyl methane diisocyanate		101-68-8	210	212	T	nt						
n-Dipropylamine		142-84-7	140	142	nt	nt						
Disodium sulfite		7757-83-7	340	340	nt	nt						
Disulfur dichloride		10025-67-9	500	502	T	nt						
Divinyl benzene		1321-74-0	290	292	nt	nt						

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DMAC	N,N-Dimethylacetamide	127-19-5	130	132	T	nt	Ethyl carbamate		51-79-6	230	233	nt
DMF	N,N-Dimethylformamide	68-12-2	130	132	T	T	Ethyl Carbitol®	Ethylene diglycol monoethyl ether	111-90-0	240	245	T
DMSO	Dimethyl sulfoxide	67-68-5	500	503	T	nt	Ethyl Cellosolve®		110-80-5	240	245	T
tert-Dodecanethiol		25103-58-6	500	501	nt	nt	Ethyl Cellosolve® acetate		111-15-9	240	245	T
Dodecyl benzene sulfonate		25155-30-0	500	507	nt	nt	Ferric chloride		7705-08-0	340	340	T
Ethyl chloride		75-00-3	260	261	T	nt	Ferric fluoride		7783-50-8	340	340	nt
Ethyl cyanide		107-12-0	345	345	nt	nt	Ferrous chloride		7758-94-3	340	340	T
Ethylene		74-85-1	290	294	T	nt	Fluorene		86-73-7	290	293	nt
Ethylenediamine		107-15-3	140	148	T	nt	Fluorine		7782-41-4	350	350	T
Ethylene dibromide		106-93-4	260	261	T	nt	Fluoroacetamide		640-19-7	130	132	nt
Ethylene dichloride	1,2-Dichloroethane	107-06-2	260	261	T	nt	Fluorobenzene		462-06-6	260	263	T
Ethylene diglycol monoethyl ether		111-90-0	240	245	T	nt	Fluoroboric acid		16872-11-0	370	370	T
Ethylene glycol		107-21-1	310	314	T	nt	Fluorosilicic acid		16961-83-4	370	370	T
Ethylene glycol acrylate	Hydroxyethyl acrylate	818-61-1	220	223	T	nt	Fluorosulfonic acid		7789-21-1	370	370	T
Ethylene glycol diacetate		111-55-7	220	222	nt	nt	Fluorosulfuric acid	Fluorosulfonic acid	7789-21-1	370	370	T
Ethylene glycol monoacetate		542-59-6	220	222	nt	nt	Fluosilicic acid	Fluorosilicic acid	16961-83-4	370	370	T
Ethylene glycol monomethyl ether	Methyl Cellosolve® acetate	110-49-6	240	245	T	nt	Formaldehyde		50-00-0	120	121	T
Ethylene glycol monopropyl ether		2807-30-9	240	245	nt	nt	Formalin		50-00-0	120	121	T
Ethyleneimine		151-56-4	270	274	T	nt	Formamide		75-12-7	130	132	nt
Ethylene oxide gas		75-21-8	270	275	T	T	Formic acid		64-18-6	100	102	T
Ethylene oxide liquid		75-21-8	270	275	T	T	Fuel oil		mixture	290	291	T
Ethylene oxide, 10% in HCFC 124		mixture	270	274	T	nt	Fuel Oil #2	Diesel fuel	68334-30-5	290	291	T
Ethylenylbenzene	Styrene	100-42-5	290	292	T	nt	Fuming sulfuric acid	Oleum	8014-95-7	370	370	T
Ethyl ether		60-29-7	240	241	T	nt	2-Furaldehyde		98-01-1	120 / 270	122 / 277	T
Ethyl fluoroacetate		459-72-3	220	222	nt	nt	Furan		110-00-9	270	277	nt
Ethyl hexaldehyde		123-05-7	120	121	nt	nt	2-Furancarbal	2-Furaldehyde	98-01-1	120 / 270	122 / 277	T
2-Ethylhexanoic acid		149-57-5	100	102	nt	nt	2-Furancarboraldehyde	2-Furaldehyde	98-01-1	120 / 270	122 / 277	T
2-Ethylhexanol		104-76-7	310	311	nt	nt	Furfural	2-Furaldehyde	98-01-1	120 / 270	122 / 277	T
2-Ethylhexyl acrylate		103-11-7	220	223	nt	nt	Furfuryl alcohol		98-00-0	310	318	nt
2-Ethylhexylamine		104-75-6	140	141	nt	nt	2-Furyl methanol		98-00-0	310	318	nt
Ethyl iodide		75-03-6	260	261	nt	nt	GA	Tabun	77-81-6	460 / 595	462 / 595	T
Ethyl mercaptan		75-08-1	500	501	nt	nt	gamma-Butyrolactone	Butyrolactone	96-48-0	220	225	T
							Gasoline		86290-81-5	290	291 / 292	T
							GB	Sarin	107-44-8	460 / 595	462 / 595	T
							GD	Soman	96-64-0	460 / 595	462 / 595	T
							Glade Intech 200		unk	590	590	T
							Glutaraldehyde		111-30-8	120	121	T

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Ethyl methacrylate		97-63-2	220	223	T	nt	Glycerine		56-81-5	310	314	T
Ethyl methanesulfonate		62-50-0	500	507	nt	nt	Glycerol	Glycerine	56-81-5	310	314	T
Ethyl parathion		56-38-2	460	462	T	nt	Glycidaldehyde		765-34-4	270	275	nt
Ethylphenol		90-00-6	310	316	nt	nt	Glycolic acid, sat. sol.in water		79-14-1	100	103	T
2-Ethyltoluene		611-14-3	290	292	nt	nt	Hydrazobenzene		122-66-7	280	280	nt
Ethyl vinyl ether		109-92-2	240 / 260	246 / 261	T	nt	Hydriodic acid		10034-85-2	370	370	T
Glycol monobutyl ether	Butyl Cellosolve®	111-76-2	240	245	T	nt	Hydriodic ether		75-03-6	260	261	nt
Glycol monoethyl ether acetate	Ethyl Cellosolve® acetate	111-15-9	240	245	T	nt	Hydrobromic acid		10035-10-6	370	370	T
Grain alcohol	Ethanol	64-17-5	310	311	T	nt	Hydrochloric acid		7647-01-0	370	370	T
Green liquor		68131-30-6	590	590	T	T	Hydrocyanic acid	Hydrogen cyanide liquid	74-90-8	345 / 370	345 / 370	T
Guthion ethyl	Azinphos ethyl	2642-71-9	460	462	T	nt	Hydrofluoric acid		7664-39-3	370	370	T
Halothane		151-67-7	260	261	nt	nt	Hydrofluorosilicic acid	Fluorosilicic acid	16961-83-4	370	370	T
HD	Sulfur mustard	505-60-2	500 / 595	502 / 595	T	nt	Hydrogen bromide		10035-10-6	350 / 370	350 / 370	T
Heating oil	Diesel fuel	68334-30-5	290	291	T	nt	Hydrogen chloride gas		7647-01-0	350	350	T
n-Heptane		142-82-5	290	291	T	nt	Hydrogen cyanide gas		74-90-8	345 / 350	345 / 350	T
Hexachlorobenzene		118-74-1	260	263	nt	nt	Hydrogen cyanide liquid		74-90-8	345 / 370	345 / 370	T
Hexachlorobutadiene		87-68-3	260	264	T	nt	Hydrogen fluoride gas		7664-39-3	350	350	T
Hexachlorocyclopentadiene		77-47-4	260	264	T	nt	Hydrogen fluoride liquid		7664-39-3	350 / 370	350 / 370	T
Hexachloroethane		67-72-1	260	261	nt	nt	Hydrogen peroxide		7722-84-1	300	300	T
1,1,1,3,3,3-Hexachloropropane		3607-78-1	260	264	T	nt	Hydrogen selenide		7783-07-5	350	350	T
Hexachloropropene		1888-71-7	260	264	nt	nt	Hydrogen sulfide		7783-06-4	350 / 500	350 / 502	T
Hexafluoroethane		76-16-4	260	261	T	nt	Hydroquinone		123-31-9	310	316	nt
Hexafluoroisobutylene		382-10-5	260	261	T	nt	Hydrosilicofluoric acid	Fluorosilicic acid	1696-83-4	370	370	T
Hexaldehyde		66-25-1	120	121	nt	nt	Hydroxybenzene	Phenol	108-95-2	310	316	T
Hexamethyldisilazane		999-97-3	140 / 480	142 / 480	T	nt	Hydroxyethyl acrylate		818-61-1	220	223	T
Hexamethylene diamine		124-09-4	140	148	T	nt	Hydroxylamine sulfate		10039-54-0	500	507	nt
Hexamethylene diisocyanate		822-06-0	210	211	T	nt	1-Hydroxy-2-Phenylethane	2-Phenylethanol	60-12-8	310	318	T
Hexamethylene diisocyanate in DuPont Activators	mixture		590	590	T	nt	1-Hydroxy-2-Phenylethane	1-Phenylethanol	98-85-1	310	318	T
Hexamethylenetriamine		100-97-0	270	274	nt	nt	Hypophosphorus acid		6303-21-5	370	370	T
Hexamine		100-97-0	270	274	nt	nt	Iodine		7553-56-2	330	330	T
1-Hexanal		66-25-1	120	121	nt	nt	Iodine, molten		7553-56-2	330	330	nt
n-Hexane		110-54-3	290	291	T	T	Iodomethane	Methyl iodide	74-88-4	260	261	T
1-Hexene		592-41-6	290	294	T	nt	Isoamyl alcohol		123-51-3	310	312	T
							Isobutane		75-28-5	290	291	T
							Isobutanol		78-83-1	310	311	T
							Isobutyl acrylate		106-63-8	220	223	nt
							Isobutyl alcohol	Isobutanol	78-83-1	310	311	T

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Hexyl alcohol		111-27-3	310	311	nt	nt	Isobutylamine		78-81-9	140	141	nt
HF	Hydrogen fluoride	7664-39-3	350	350	T	T	Isobutylbenzene		538-93-2	290	292	T
HMDI	1,6-Hexamethylene diisocyanate	822-06-0	210	211	T	nt	Isobutyl nitrite		542-56-3	430	431	nt
Hydrazine		302-01-2	280	280	T	T	Isobutyraldehyde		78-84-2	120	121	nt
Hydrazine hydrate		10217-52-4	280	280	T	nt	Isocetaldehyde		63885-09-6	120	121	nt
Isopentane		78-78-4	290	291	nt	nt	Isocyanuric chloride		87-90-1	270	274	nt
Isopentyl alcohol	Isoamyl alcohol	123-51-3	310	311	T	nt	Isooctane		592-27-8	290	291	nt
Isophorone		78-59-1	390	391	nt	nt	Lithium hydroxide		1310-65-2	380	380	T
Isophorone diisocyanate		4098-71-9	210	211	T	nt	Lupranate®	Polymethylene polyphenylpolyisocyanate	9106-87-9	210	212	T
Isoprene		78-79-5	290	296	T	nt	Magnesium sulfate		7487-88-9	340	340	nt
Isopropanol		67-63-0	310	312	T	nt	Malathion		121-75-5	460	462	T
Isopropyl acetate		108-21-4	220	222	nt	nt	Maleic acid		110-16-7	100	104	T
Isopropyl alcohol	Isopropanol	67-63-0	310	312	T	nt	Maleic anhydride		108-31-6	160	161	T
Isopropylamine		75-31-0	140	141	T	nt	Malic acid		6915-15-7	100	104	nt
Isopropyl benzene	Cumene	98-82-8	290	292	T	nt	MDA	4,4'-Methylene dianiline	101-77-9	140	145 / 149	T
Isopropyl chloride		75-29-6	260	261	nt	nt	MEK	Methyl ethyl ketone	78-93-3	390	391	T
Isopropyl ether		108-20-3	240	241	nt	nt	p-Mentha-1,8-diene	d-Limonene	5989-27-5	290	296	T
4,4'-Isopropylidene diphenol		80-05-7	310	316	nt	nt	Mercaptoacetic acid	Thioglycolic acid	68-11-1	100 / 500	103 / 501	T
Isopropyl methacrylate		4655-34-9	220	223	nt	nt	Mercuric chloride		7487-94-7	340	340	T
Isopropyl methane-fluorophosphonate	Sarin	107-44-8	460 / 595	462 / 595	T	nt	Mercuric cyanide		592-04-1	345	345	nt
Isovaleraldehyde		590-86-3	120	121	nt	nt	Mercury		7439-97-6	330	330	T
Jet A fuel		8008-20-6	290	291	T	nt	Mesityl oxide		141-79-7	390	391	T
JP-4 jet fuel	mixture		290	291	T	nt	Mesyl Chloride	Methanesulfonyl Chloride	124-63-0	500	505	T
JP-8 jet fuel		8008-20-6	290	291	T	nt	Methacrylamide		79-39-0	130	135	nt
Kerosene		8008-20-6	290	291	T	nt	Methacrylic acid		79-41-4	100	102	T
L	Lewisite	541-25-3	470 / 595	470 / 595	T	nt	Methacrylonitrile		126-98-7	430	431	nt
Lactic acid		50-21-5	100	103	nt	nt	Methane		74-82-8	290	291	T
Lannate® LV	Methomyl	16752-77-5	230	233	T	nt	Methanesulfonic acid		75-75-2	500	504	T
Lauric acid		143-07-7	100	102	nt	nt	Methanesulfonyl Chloride		124-63-0	500	505	T
Lead fluoroborate		13814-96-5	340	340	nt	nt	Methanethiol	Methyl mercaptan	74-93-1	500	501	T
Lead sulfate		7446-14-2	340	340	nt	nt	Methanoic acid	Formic acid	64-18-6	100	102	T
Lewisite (L) Chemical Agent		541-25-3	470 / 595	470 / 595	T	nt	Methanol		67-56-1	310	311	T
Ligroine	VM&P naphtha	8032-32-4	290	291	T	nt	Methomyl		16752-77-5	230	233	T
							2-Methoxyethanol	Methyl Cellosolve®	109-86-4	240	245	T
							2-Methoxyethyl acetate	Methyl Cellosolve® acetate	110-49-6	240	245	T

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Lime hydrate		1305-62-0	380	380	nt	nt	1-Methoxy-2-propanol		107-98-2	240	245	nt
d-Limonene		5989-27-5	290	296	T	nt	Methyl acetate		79-20-9	220	222	nt
Lindane		58-89-9	260	261	T	nt	Methyl acrylate		96-33-3	220	223	T
Linoleic acid		60-33-3	100	102	nt	nt	Methylacrylic acid		777-77-7	300	300	nt
Lithium chloride		7447-41-8	340	340	T	nt	2-Methylacetonitrile	Acetone cyanohydrin	75-86-5	310 / 430	313 / 431	T
Lithium chromate		14307-35-8	340	340	nt	nt	Methyl alcohol	Methanol	67-56-1	310	311	T
N-Methylaniline		100-61-8	140	146	nt	nt	Methylamine		74-89-5	140	141	T
2-Methylbenzenethiol		137-06-4	500	501	nt	nt	Methyl aminopropylamine		6291-84-5	140	148	nt
Methyl bromide		74-83-9	260	261	T	nt	2-Methylaniline	o-Toluidine	95-53-4	140	145	T
N-methylformamide		123-39-7	130	132	T	nt	Methyl parathion		298-00-0	460	462	T
Methyl tert-butyl ether		1634-04-4	240	241	T	nt	2-Methyl-1,5-pentanedinitrile	Methylglutaronitrile	4553-62-2	430	431	T
Methyl n-butyl ketone		591-78-6	390	391	nt	nt	4-Methyl-2-pentanone	Methyl isobutyl ketone	108-10-1	390	391	T
Methyl carbitol		111-77-3	240	245	nt	nt	2-Methyl-1,3-propanediol		2163-42-0	310	314	T
Methyl Cellosolve®		109-86-4	240	245	T	nt	2-Methyl-2-propanethiol		75-66-1	500	501	nt
Methyl Cellosolve® acetate		110-49-6	240	245	T	nt	2-Methyl-1-propanol	Isobutanol	78-83-1	310	311	T
Methyl chloride		74-87-3	260	261	T	T	2-Methylpropenoic acid	Methacrylic acid	79-41-4	100	102	T
Methyl chloroacetate		96-34-4	220	222	nt	nt	2-Methyl pyridine	2-Picoline	109-06-8	270	271	T
Methyl chloroform	1,1,1-Trichloroethane	71-55-6	260	261	T	nt	n-Methyl-2-pyrrolidone		872-50-4	130	132	T
Methyl chloroformate		79-22-1	110	113	T	nt	Methyl salicylate		119-36-8	220	226	T
Methylene bis (cyclohexylisocyanate)		5124-30-1	210	211	nt	nt	Methylsulfonyl Chloride	Methanesulfonyl Chloride	124-63-0	500	505	T
4,4'-Methylene bis (o-chloroaniline)		101-14-4	140	149	T	nt	Methylstyrene		25013-15-4	290	292	nt
Methylene bromide		74-95-3	260	261	T	nt	Methyl sulfate		75-93-4	500	507	nt
Methylene chloride	Dichloromethane	75-09-2	260	261	T	T	Methyl sulfide	Dimethyl sulfide	75-18-3	500	502	T
4,4'-Methylene dianiline		101-77-9	140	145 / 149	T	nt	Methyl Sulfochloride	Methanesulfonyl Chloride	124-63-0	500	505	T
N-Methylethanolamine		109-83-1	140	142	nt	nt	Methyl sulfoxide	Dimethyl sulfoxide	67-68-5	500	503	T
Methyl ether	Dimethyl ether	115-10-6	240	241	T	nt	Methyl trichlorosilane		75-79-6	480	480	T
Methyl ethyl ketone		78-93-3	390	391	T	nt	Methyltriglycol		112-35-6	240	245	nt
Methyl ethyl ketone peroxide		1338-23-4	300	300	nt	nt	Mineral oil		8012-95-1	290	291	T
Methyl ethyl ketoxime		96-29-7	590	590	T	nt	Mineral spirits		64475-85-0	290	291	T
Methyl ethyl pyridine		104-90-5	270	271	nt	nt	Monoethanolamine	Ethanolamine	141-43-5	140 / 310	141 / 311	T
Methyl fluoride		593-53-3	260	261	T	nt	Monomethylamine	Methylamine	74-89-5	140	141	T
Methyl formate		107-31-3	220	221	T	nt	Monomethylhydrazine	Methylhydrazine	60-34-4	280	280	T
2-Methylglutaronitrile		4553-62-2	430	431	T	nt	Morpholine		110-91-8	140	142	T
Methylhydrazine		60-34-4	280	280	T	nt	MTBE	Methyl-t-butyl ether	1634-04-4	240	241	T
							Muriatic acid	Hydrochloric acid	7647-01-0	370	370	T
							Mustard gas	Sulfur mustard	505-60-2	500 / 595	502 / 595	T
							Naphtha		8030-30-6	290	291	T

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Methyl iodide		74-88-4	260	261	T	T	Naphthalene		91-20-3	290	293	T
Methyl isobutyl carbinol		108-11-2	310	312	nt	nt	Naphthylamine		134-32-7	140	145	nt
Methyl isobutyl ketone		108-10-1	390	391	T	nt	Nerve gas	Sarin	107-44-8	460 / 595	462 / 595	T
Methyl isocyanate		624-83-9	210	211	T	nt	Nickel carbonyl		13463-39-3	470	470	T
Methyl mercaptan		74-93-1	500	501	T	nt	Nickel chloride		7718-54-9	340	340	nt
N-Methyl methacrylamide		3887-02-3	130	135	T	nt	Nickel cyanide		557-19-7	345	345	nt
Methyl methacrylate		80-62-6	220	223	T	nt	Nicotine		54-11-5	270	271	T
o-Nitrochlorobenzene		88-73-3	260 / 440	263 / 442	T	nt	Nitric acid		7697-37-2	370	370	T
p-Nitrochlorobenzene		100-00-5	260 / 440	263 / 442	T	nt	Nitric acid, red fuming		52583-42-3	370	370	T
Nitroethane		79-24-3	440	441	nt	nt	Nitric oxide		10102-43-9	350	350	T
Nitrogen dioxide		10102-44-0	350	350	T	nt	Nitrobenzene		98-95-3	440	441	T
Nitrogen tetroxide		10544-72-6	350	350	T	nt	Paraformaldehyde		30525-89-4	120	121	nt
Nitrogen trifluoride		7783-54-2	350	350	T	nt	Paraldehyde		123-63-7	120	121	nt
Nitroglycerine		55-63-0	440	442	nt	nt	Paraphenylene diisocyanate (PPDI) crude		104-49-4	210	212	T
Nitromethane		75-52-5	440	441	T	nt	Parathion	Ethyl parathion	56-38-2	460	462	T
2-Nitrophenol		88-75-5	310 / 440	316 / 442	T	nt	PCB		11097-69-1	260	263	T
1-Nitropropane		108-03-2	440	441	nt	nt	Pentachloroethane		76-01-7	260	261	nt
2-Nitropropane		79-46-9	440	441	T	nt	Pentachlorophenol		87-86-5	310	316	T
Nitrosyl chloride		2696-92-6	350	350	nt	nt	1,3-Pentadiene		504-60-9	290	296	nt
Nitrotoluene, mixture		1321-12-6	440	442	nt	nt	1,5-Pentanediamine		462-94-2	140	148	nt
m-Nitrotoluene		99-08-1	440	442	nt	nt	2-Pentanol		6032-29-7	310	312	nt
o-Nitrotoluene		88-72-2	440	442	T	nt	n-Pentanol		71-41-0	310	311	nt
p-Nitrotoluene		99-99-0	440	442	T	nt	2-Pentenitrile		25899-50-7	430	431	T
Nitrous oxide		10024-97-2	350	350	T	nt	cis-2-Pentenitrile		13284-42-9	430	431	T
Nonylamine		112-20-9	140	141	T	nt	3-Pentenitrile		4635-87-4	430	431	T
n-Nonyl phenol		25154-52-3	310	316	nt	nt	Perchloric acid		7601-90-3	370	370	T
5-Norbornene-2-yl acetate		6143-29-9	220	222	T	nt	Perchloroethylene	1,1,2,2-Tetrachloroethylene	127-18-4	260	264	T
5-Norbornene-2-ol acetate	5-Norbornene-2-yl acetate	6143-29-9	220	222	T	nt	Perclene	1,1,2,2-Tetrachloroethylene	127-18-4	260	261	T
n-Octane		111-65-9	290	291	T	nt	Peroxyacetic acid		79-21-0	300	300	nt
Octanoic acid		124-07-2	100	102	T	nt	Petroleum distillate	JP-8 jet fuel	94114-58-6	290	291	T
1-Octanol		111-87-5	310	311	nt	nt	Petroleum ether	VM&P Naphtha	8030-32-4	290	291	T
n-Octanol		111-87-5	310	311	nt	nt	Petroleum spirits	Mineral spirits	64475-85-0	290	291	T
n-Octylamine		111-86-4	140	141	nt	nt	Phenanthrene		85-01-8	290	293	nt
Oleic acid		112-80-1	100	102	nt	nt	Phenanthrin		85-01-8	290	293	nt
Oleum		8014-95-7	370	370	T	T						
Organo-Tin Paint		mixture	470	470	T	nt						
Orthoarsenic acid		1303-28-2	365	365	nt	nt						
Otto Fuel II		106602-80-6	590	590	T	nt						

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Oxalic acid		144-62-7	100	104	T	nt	1-Phenethanol	1-Phenylethanol	98-85-1	310	318	T
Oxalic acid dihydrate		6153-56-6	100	104	T	nt	2-Phenethanol	2-Phenylethanol	60-12-8	310	318	T
Oxamyl		23135-22-0	130	137	nt	nt	Phenol		108-95-2	310	316	T
Oxybismethane	Dimethyl ether	115-10-6	240	241	T	nt	Phenyl bromide		108-86-1	260	263	nt
4,4'-Oxydianiline		101-80-4	140	149	nt	nt	m-Phenylenediamine		108-45-2	140	149	nt
Palmitic acid		57-10-3	100	102	nt	nt	Phenethyl alcohol	2-Phenylethanol	60-12-8	310	318	T
Parabromofluorobenzene	4-Bromofluorobenzene	460-00-4	260	263	T	nt	1-Phenethyl Alcohol	1-Phenylethanol	98-85-1	310	318	T
Parachlorobenzotrchloride	4-Benzotrchloride	5216-25-1	260	263	T	nt	2-Phenethyl Alcohol	2-Phenylethanol	60-12-8	310	318	T
Parachlorobenzotrfluoride	4-Clorobenzotrfluoride	98-56-6	260	263	T	nt	Phenylacetoneitrile	Benzyl Cyanide	140-29-4	430	432	T
Phenyl trichlorosilane	Trichlorophenylsilane	98-13-5	480	480	T	nt	1-Phenylethanol		98-85-1	310	318	T
Phosgene		75-44-5	350	350	T	T	2-Phenylethanol		60-12-8	310	318	T
Phosphine		7803-51-2	350	350	T	nt	a-Phenylethyl alcohol	1-Phenylethanol	98-85-1	310	318	T
Phosphoric acid		7664-38-2	370	370	T	T	Phenylethylene	Styrene	100-42-5	290	292	T
Phosphoric anhydride		1314-56-3	370	370	nt	nt	Phenyl glycidyl ether		122-60-1	270	275	T
Phosphorus oxychloride		10025-87-3	360	360	T	nt	Phenyl hydrazine		100-63-0	280	280	nt
Phosphorus pentoxide		1314-56-3	370	370	nt	nt	Phenyl hydroxide	Phenol	108-95-2	310	316	T
Phosphorus trichloride		7719-12-2	360	360	T	nt	Phenyl isocyanate		103-71-9	210	212	T
Phosphoryl chloride	Phosphorus oxychloride	10025-87-3	360	360	T	nt	Phenyl mercaptan		108-98-5	500	501	T
2-Picoline		109-06-8	270	271	T	nt	Propionic acid		79-09-4	100	102	T
3-Picoline		108-99-6	270	271	T	nt	Propionic anhydride		123-62-6	160	161	nt
alpha-Picoline	2-Picoline	109-06-8	270	271	T	nt	Propionyl chloride		79-03-8	110	111	nt
Picric acid		88-89-1	310 / 440	316 / 440	nt	nt	2-Propoxyethanol		2807-30-9	240	245	nt
Piperazine		110-85-0	270	274	nt	nt	Propyl acetate		109-60-4	220	222	nt
Piperidine		110-89-4	270	274	nt	nt	n-Propyl alcohol	n-Propanol	71-23-8	310	311	T
Polychlorinated biphenyls	PCB	11097-69-1	260	263	T	nt	n-Propylamine		107-10-8	140	141	T
Polymethylene poly-phenylpolyisocyanate		9106-87-9	210	212	T	nt	Propyl Cellosolve®		2807-30-9	240	245	T
Potash	Potassium carbonate	584-08-7	340	340	T	nt	Propyl chloride		540-54-5	260	261	nt
Potassium acetate		127-08-2	340	340	T	nt	Propylene chloride	Propylene dichloride	78-87-5	260	261	T
Potassium binoxalate	Potassium acetate	127-08-2	340	340	T	nt	Propylene diamine		78-90-0	140	148	nt
Potassium carbonate		584-08-7	340	340	T	nt	Propylene dichloride		78-87-5	260	261	T
Potassium chloride		3811-04-9	340	340	nt	nt	Propylene glycol		57-55-6	310	314	T
Potassium chromate		7789-00-6	340	340	T	nt	Propyleneimine		75-55-8	270	274	nt
Potassium cyanide		151-50-8	345	345	T	nt	1,2-Propylene oxide		75-56-9	270	275	T
Potassium fluoride		7789-23-3	340	340	nt	nt	Propyl methacrylate		2210-28-8	220	223	nt
Potassium hydroxide		1310-58-3	380	380	T	nt	Prussic acid	Hydrogen cyanide liquid	74-90-8	345 / 470	345 / 470	T
Potassium oxalate		583-52-8	340	340	nt	nt	Pyrene		129-00-0	290	293	nt
Potassium permanganate		7722-64-7	340	340	T	nt	Pyridine		110-86-1	270	271	T
							Pyromucic aldehyde	2-Furaldehyde	98-01-1	120 / 270	122 / 277	T

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Potassium persulfate		7727-21-1	340	340	nt	nt	Pyrrole		109-97-7	270	274	nt
PPDI	Paraphenylene diisocyanate	104-49-4	210	212	T	nt	Pyrrolidine		123-75-1	270	274	T
Propane		74-98-6	290	291	T	nt	Quick silver	Mercury	7439-97-6	330	330	T
n-Propanol		71-23-8	310	311	T	nt	Quinoline		91-22-5	270	274	nt
Propanoyl chloride		79-03-8	110	111	nt	nt	Red fuming nitric acid	Nitric acid, red fuming	7697-37-2	370	370	T
2-Propenamide	Acrylamide	79-06-1	130	135	T	nt	Resorcinol		108-46-3	310	316	nt
2-Propenoic acid	Acrylic acid	79-10-7	100	102	T	nt	Sarin		107-44-8	460 / 595	462 / 595	T
Propionaldehyde		123-38-6	120	121	T	nt	Selenious acid		7783-00-8	370	370	nt
Sodium chloride		7647-14-5	340	340	nt	nt	Silane		7803-62-5	480	480	T
Sodium cyanide		143-33-9	345	345	T	nt	Silicon tetrachloride		10026-04-7	360 / 480	360 / 480	T
Sodium dichromate		10588-01-9	340	340	T	nt	Silicon tetrahydride	Silane	7803-62-5	480	480	T
Sodium fluoride		7681-49-4	340	340	T	nt	Skydrol®		95660-51-8	460	462	T
Sodium hydrosulfide		16721-80-5	340	340	T	nt	Sodium-t-amylate / t-amyl alcohol	mixture		590	590	T
Sodium hydroxide		1310-73-2	380	380	T	T	Sodium arsenite		15120-17-9	340	340	nt
Sodium hypochlorite		7681-52-9	340	340	T	nt	Sodium bicarbonate		144-55-8	340	340	nt
Sodium methylate		124-41-4	550	550	T	nt	Sodium bisulfite		7631-90-5	340	340	nt
Sodium persulfate		7775-27-1	340	340	nt	nt	Sodium carbonate		497-19-8	340	340	nt
Sodium phosphate		7601-54-9	340	340	nt	nt	Tannic acid		1401-55-4	310	316	nt
Sodium sulfate		7757-82-6	340	340	nt	nt	TDI	Toluene-1,3-diisocyanate	26471-62-5	210	212	T
Sodium sulfide		1313-82-2	340	340	nt	nt	Terephthalic acid methyl ester		120-61-6	220	226	nt
Sodium sulfite		7757-83-7	340	340	nt	nt	1,1,2,2-Tetrabromoethane		79-27-6	260	261	T
Soman (GD)		96-64-0	460 / 595	462 / 595	T	nt	2,2', 6,6'-Tetrachlorobisphenol A		79-95-8	260 / 310	263 / 316	T
Stearic acid		57-11-4	100	102	nt	nt	1,1,1,2-Tetrachloroethane		630-20-6	260	261	nt
Stoddard solvent		8052-41-3	290	291	T	nt	1,1,2,2-Tetrachloroethane		79-34-5	260	261	T
Styrene		100-42-5	290	292	T	nt	1,1,2,2-Tetrachloroethylene		127-18-4	260	264	T
Sulfinyl chloride	Thionyl chloride	7719-09-7	360	360	T	nt	Tetraethoxysilane		78-10-4	480	480	T
Sulfonyl chloride	Sulfuryl chloride	7791-25-5	350 / 360	350 / 360	T	nt	Tetraethylene pentamine		112-57-2	140	148	nt
Sulfur chloride	Sulfur dichloride	10545-99-0	500	502	T	nt	Tetraethyl lead		78-00-2	470	470	T
Sulfur dichloride		10545-99-0	500	502	T	nt	1,1,1,2-Tetrafluoroethane		811-97-2	260	261	T
Sulfur dioxide		7446-09-5	350 / 365	350 / 365	T	nt	Tetrafluoroethylene		116-14-3	260	264	nt
Sulfur hexafluoride		2551-62-4	350 / 500	350 / 509	T	nt	Tetrafluoromethane		75-73-0	260	261	T
Sulfuric acid		7664-93-9	370	370	T	T	Tetrahydrofuran		109-99-9	240	241	T
Sulfuric acid, fuming	Oleum	8014-95-7	370	370	T	T	Tetralone		529-34-0	290	292	T
Sulfur monochloride	Disulfur dichloride	10025-67-9	500	502	T	nt						
Sulfur mustard (HD) chemical agent		505-60-2	500 / 595	502 / 595	T	nt						

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Sulfurous acid		7782-99-2	370	370	nt	nt	Tetramethylethylene oxide		5076-20-0	270	275	T
Sulfurous anhydride	Sulfur dioxide	7446-09-5	350 / 365	350 / 365	T	nt	Tetramethyl Oxirane	Tetramethylethylene oxide	5076-20-0	270	275	T
Sulfurous chloride	Thionyl chloride	7719-09-7	360	360	T	nt	N,N,N,N'-Tetramethyl-ethylenediamine		110-18-9	140	148	nt
Sulfurous oxide	Sulfur dioxide	7446-09-5	350 / 365	350 / 365	T	nt	Tetramethyltin in n-pentane	Mixture		590	590	T
Sulfurous oxychloride	Thionyl chloride	7719-09-7	360	360	T	nt	1,1'-Thiobis (2-chloroethane)	Sulfur mustard	505-60-2	500 / 595	502 / 595	T
Sulfur oxide	Sulfur dioxide	7446-09-5	350 / 365	350 / 365	T	nt	Thioglycolic acid		68-11-1	100 / 500	103 / 501	T
Sulfur trioxide		7446-11-9	365	365	T	T	Thionyl chloride		7719-09-7	360	360	T
Sulfuryl chloride		7791-25-5	350 / 360	350 / 360	T	nt	Thiophenol	Phenyl mercaptan	108-98-5	500	501	T
Tabun		77-81-6	460 / 595	462 / 595	T	nt	Thiopropene	Dimethyl sulfide	75-18-3	500	502	T
Toluene-2,4-diisocyanate		584-84-9	210	212	T	nt	Thioxamyl	Oxamyl	23135-22-0	130	137	T
p-Toluenesulfonic acid monohydrate		6192-52-5	500	504	T	nt	Titanium chloride	Titanium tetrachloride	7550-45-0	360	360	T
o-Toluenethiol		137-06-4	500	501	nt	nt	Titanium dioxide		13463-67-7	380	380	nt
m-Toluidine		108-44-1	140	145	T	nt	Titanium tetrachloride		7550-45-0	360	360	T
o-Toluidine		95-53-4	140	145	T	nt	TNT		118-96-7	440	442	nt
Tolyl glycidyl ether		26447-14-3	270	275	nt	nt	Toluene		108-88-3	290	292	T
2-Tolyl mercaptan		137-06-4	500	501	nt	nt	Toluene 80%, Dichlorotriazine	mixture		260	263	T
Triallylamine		102-70-5	140	143	nt	nt	Toluene-1,3-diisocyanate		26471-62-5	210	212	T
Tribromomethane		75-25-2	260	261	nt	nt	Tricresyl phosphate	Tritolyl phosphate	1330-78-5	460	462	T
Tribromophenol		118-79-6	310	316	T	nt	Triethanolamine		102-71-6	140	143	nt
Tributylamine		102-82-9	140	143	nt	nt	Triethoxysilane		998-30-1	480	480	T
Tributyltin oxide		56-35-9	470	470	nt	nt	Triethyl aluminum		97-93-8	470	470	T
Trichloroacetaldehyde		75-87-6	120	121	nt	nt	Triethylamine		121-44-8	140	143	T
Trichloroacetic acid		76-03-9	100	103	T	nt	Triethylenetetramine		112-24-3	140	149	nt
1,1,1-Trichloroacetone	Trichloroacetic acid	76-03-9	100	103	T	nt	Trifluoroacetic acid		76-05-1	100	103	T
1,1,3-Trichloroacetone		921-03-9	260 / 390	261 / 391	T	nt	Trifluoroacetyl chloride		354-32-5	110	111	T
Trichloroacetonitrile		545-06-2	430	431	nt	nt	2,2,2-Trifluoroethanol		75-89-8	310	315	T
1,2,4-Trichlorobenzene		120-82-1	260	263	T	nt	Trifluoromethane		75-46-7	260	261	T
1,1,1-Trichloroethane		71-55-6	260	261	T	nt	Trifluoromethane sulfonic acid		1493-13-6	500	504	T
1,1,2-Trichloroethane		79-00-5	260	261	T	nt	Trimethylamine gas		75-50-3	140	143	T
2,2,2-Trichloroethanol		115-20-8	310	315	T	nt	1,2,4-Trimethylbenzene		95-63-6	290	292	nt
Trichloroethylene		79-01-6	260	264	T	T	1,2,3-Trimethylbenzene		526-73-8	290	292	T
Trichlorofluoromethane		75-69-4	260	261	nt	nt	Trimethylcyclohexane		98-55-5	290	291	nt
Trichloroisocyanuric acid		87-90-1	270	274	nt	nt	3,5,5-Trimethyl cyclohexanol		116-02-9	310	312	nt
Trichloromethane	Chloroform	67-66-3	260	261	T	T						
Trichloromethanethiol		75-70-7	500	501	nt	nt						
Trichloromethyl benzene	Benzotrichloride	98-07-7	260	263	T	nt						
Trichloromethyl silane	Methyl trichlorosilane	75-79-6	480	480	T	nt						

For additional information go to www.personalprotection.dupont.com or call 1-800-931-3456.

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CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

Chemical Name	Name in Data Table (if Synonym)	CAS Number	Class	Sub-Class	Limited Use	Re-usable	Chemical Name	Name in Data Table (if Synonym)	CAS Number	Class	Sub-Class	Limited Use
Trichlorophenylsilane		98-13-5	480	480	T	nt	2,2,4-Trimethylpentane		540-84-1	140	142	nt
1,2,3-Trichloropropane		96-18-4	260	261	nt	nt	Trimethyl phosphate		512-56-1	460	462	T
1,1,3-Trichloro-2-propanone	1,1,3-Trichloroacetone	921-03-9	260	261	T	nt	Trimethyl phosphite		121-45-9	460	462	T
Trichlorosilane		10025-78-2	480	480	T	nt	2,4,6-Trinitrophenol		88-89-1	310 / 440	316 / 440	nt
1,1,2-Trichloro-1,2,2-trifluoroethane		76-13-1	260	261	T	nt	2,4,6-Trinitrotoluene		118-96-7	440	442	nt
Trichlorovinylsilane		75-94-5	480	480	T	nt	Trioctyl phosphate		25103-12-2	460	462	nt
Triclene	Trichloroethylene	79-01-6	260	264	T	T	Triphenyl phosphite		101-02-0	460	462	T
N-Vinylpyrrolidone		88-12-0	130	132	nt	nt	Tripopylamine		102-69-2	140	146	T
Vinyl trichlorosilane	Trichlorovinylsilane	75-94-5	480	480	T	nt	Tritolyl phosphate		1330-78-5	460	462	T
VM and P naphtha		8032-32-4	290	291	T	nt	Tungsten hexafluoride		7783-82-6	350	350	T
VX Nerve Agent		50782-69-9	460 / 595	462 / 595	T	nt	Turpentine		8006-64-2	290	294	T
Vydate	Oxamyl	23135-22-0	130	137	T	nt	Vinyl acetate		108-05-4	220	222	T
Water		7732-18-5	590	590	nt	nt	Vinylbenzene	Styrene	100-42-5	290	292	T
White liquor		68131-33-9	590	590	T	T	Vinyl bromide		593-60-2	260	264	T
Wood alcohol	Methanol	67-56-1	310	311	T	T	Vinyl chloride		75-01-4	260	264	T
							4-Vinyl-1-cyclohexene		100-40-3	290	294	nt
							Vinyl fluoride		75-02-5	260	264	nt
							Vinylidene chloride		75-35-4	260	264	T
							Vinylmagnesium chloride		3536-96-7	470	470	T
							4-Vinyl pyridine		100-43-6	270	271	T
							Wood ether	Dimethyl ether	115-10-6	240	241	T
							o-Xylene		95-47-6	290	292	T
							Xylene, mixed isomers		1330-20-7	290	292	T
							Xylenol		1300-71-6	310	316	nt
							Xylidine		1300-73-8	140	145	nt
							Yperite	Sulfur mustard	505-60-2	500 / 595	502 / 595	T
							Zinc chromate		13530-65-9	340	340	nt
							Zinc cyanide		557-21-1	345	345	nt

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Effective June 2004. This guide replaces all previously published until superseded.

For more information about DuPont Personal Protection

Web site: www.personalprotection.dupont.com

Customer Service: **1-800-931-3456**

E-mail: personalprotection@usa.dupont.com

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