

Chemical Breakthrough Times.

StarGuard® Essential^{PLUS}



CHEMICAL	CAS No.	LIQUID	SOLID	GAS	LEVEL
(±)-1-Methyl-4-(1-methylvinyl)cyclohexene (Limonene)	7705-14-8	x			2
2-Bromonaphthalene	580-13-2		x		0
(1-Methoxy-2-propyl) acetate	108-65-6	x			0
(2-Hydroxyethyl) methacrylate	868-77-9	x			0
(2-Hydroxyethyl) salicylate	87-28-5		x		6
(3,4-Dihydroxyphenyl)-L-alanine	59-92-7		x		6
(3-Methoxyphenyl) propionic acid	10516-71-9		x		6
(4-hydroxy-3-methoxyphenyl)-3-buten-2-one	22214-42-2	x			6
(Ethylmercurio)thiol-benzoic acid (sodium salt)	54-64-8		x		6
0.5% 3-Iodo-2-propynyl-butyl-carbamate, 0.5% carbendazim	55406-53-6, 10605-21-7	x			1
1,1,1-Trichloroethane	71-55-6	x			0
1,1-Dichloroethane	75-34-3	x			0
1,1-Difluoroethane (R152a)	75-37-6	x			0
1,2 Propanediol	57-55-6	x			6
1,2,3-Trichloropropane	96-18-4	x			0
1,2,4-Trimethylbenzene	95-63-6	x			0
1,2-Dichloroethane (ethylene dichloride)	107-06-2	x			0
1,2-Phenylenediamine	95-54-5	x			1
1,4-Butanediol dimethacrylate, stabilized	2082-81-7	x			0
1,4-Dioxane	123-91-1	x			0
1,6-Hexamethylene diisocyanate (HDI)	822-06-0	x			0
1,2-Dichlorobenzene p.a.	95-50-1	x			0
10% 2-Ethyl cyanoacrylate	7085-85-0	x			0
1-Bromonaphthalene	90-11-9	x			0
1-Butoxy-2-propanol	5131-66-8	x			0
1-Methoxy-2-propanol (methoxypropanol (PM))	107-98-2	x			0
1-Methyl-2-pyrrolidone	872-50-4	x			0
1-Naphthylamine	134-32-7		x		6

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2-(1H-indol-3-yl)-N-methoxy-N-methylacetamide	132922-37-3		x		1
2,2-Dichloroacetamide	683-72-7		x		0
2-Butanone (MEK)	78-93-3	x			0
2-Butoxyethanol	111-76-2	x			0
2-Ethyl-1-butanol	97-95-0	x			0
2-Ethylhexyl acrylate	103-11-7	x			0
2-Hexanol	626-93-7	x			1
2-Mercaptoethanol	60-24-2	x			0
2-Naphthol	135-19-3		x		6
2-Phenoxyethanol	2386-54-2		x		6
2-Propanol D1	3979-51-9	x			0
3-(Acryloyloxy)-2-hydroxypropyl methacrylate	1709-71-3	x			0
3,4-(Methylenedioxy)-acetophenone	3162-29-6	x			6
3-Mercaptopropionic acid	107-96-0	x			0
3-Methyl-2-benzothiazolinone hydrazone hydrochloride monohydrate	4338-98-1		x		6
4-Amino-2-hydroxytoluene 3%	2835-95-2		x		2
4-Methacryloxyethyl trimellitic anhydride 25%	70293-55-9	x			6
4-Nitroaniline	100-01-6		x		6
5-(4-Dimethylaminobenzylidene)-rhodanine p.a.	536-17-4	x			0
Acetaldehyde	75-07-0	x			0
Acetone	67-64-1	x			0
Acetonitrile	75-05-8	x			0
Acetylacetone	123-54-6	x			0
Acrylonitrile	107-13-1	x			1

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Acrylonitrile-butadiene-styrene	9003-56-9		x		1
Acrylic acid	79-10-7	x			0
alpha-Limonene		x			6
Alizarin Red S sodium salt	130-22-3		x		6
Alkali blue indicator	1324-76-1		x		6
Alkali hexafluorosilicate (Na) 1.5%	16893-85-9		x		4
Aluminum chloride hexahydrate, pure	7784-13-6		x		6
Aluminum potassium sulfate dodecahydrate p.a. (potassium alum)	7784-24-9		x		6
Aluminum-magnesium powder	12604-68-1		x		6
Aluminum nitrate nonahydrate	7784-27-2		x		6
Aluminum oxide (alumina)	1344-28-1		x		6
Aluminum powder	7429-90-5		x		6
Aluminum-silicon powder	7440-21-3, 7429-90-5		x		6
Aluminum sulfate, solid	10043-01-3		x		6
Formic acid 10%	64-18-6	x			1
Formic acid 100%	64-18-6	x			0
Formic acid 50%	64-18-6	x			0
Formic acid 70%	64-18-6	x			0
Formic acid 90%	64-18-6	x			0
Amidosulfonic acid	5329-14-6		x		6
Ammonia	7664-41-7			x	0
Ammonia solution 1%	1336-21-6	x			6
Ammonia solution 10%	1336-21-6	x			5
Ammonia solution 25%	1336-21-6	x			0
Ammonium acetate	631-61-8		x		6
Ammonium carbamate p.a.	111-78-0		x		6
Ammonium carbonate	10361-29-2		x		6
Ammonium cerium(IV) nitrate p.a.	16774-21-3		x		6
Ammonium cerium(IV) sulfate dihydrate p.a.	10378-47-9		x		6
Ammonium chloride	12125-02-9		x		6
Ammonium iron(III) sulfate hexahydrate p.a.	7783-85-9		x		6
Ammonium fluoride	12125-01-8	x			6
Ammonium heptamolybdate tetrahydrate	12054-85-2		x		6
Ammonium hydroxide 85%	1336-21-6	x			2
Ammonium metavanadate	7803-55-6		x		6

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Ammonium monochloroacetate	1336-21-6		x		6
Ammonium monovanadate	7803-55-6		x		6
Ammonium nitrate	6484-52-2		x		6
Ammonium oxalate	1113-38-8		x		6
Ammonium oxalate monohydrate p.a.	6009-70-7		x		6
Ammonium persulfate 10%	7727-54-0	x			6
Ammonium persulfate 100%	7727-54-0		x		2
Ammonium sulfamate p.a.	7773-06-0		x		6
Ammonium sulfate p.a.	7783-20-2		x		6
Ammonium sulfide	12135-76-1	x			6
Ammonium tartrate p.a.	3164-29-2		x		6
Ammonium thiocyanate p.a.	1762-95-4		x		6
Ammonium thiosulfate	7783-18-8		x		6
Aniline	62-53-3	x			0
Antimony(III) chloride p.a.	10025-91-9		x		6
Antimony(III) oxide	1309-64-4		x		6
Antimony pentachloride	7647-18-9	x			2
Barium acetate	543-80-6		x		6
Barium carbonate	513-77-9		x		6
Barium chloride	10361-37-2		x		6
Barium chloride dihydrate	10326-27-9		x		6
Barium chloride dihydrate solution 10%	10326-27-9, 7732-18-5	x			6
Barium hydroxide octahydrate p.a.	12230-71-6		x		6
Barium nitrate p.a.	10022-31-8		x		6
Barium sulfate, chemically pure	7727-43-7		x		6
Benzaldehyde	100-52-7	x			0
Benzalkonium chloride	8001-54-5		x		6
Gasoline 80-110, pure (Naphtha (petroleum), hydrogen-treated light 100%; n-Hexane 5%)	64742-49-0, 110-54-3	x			0
Gasoline, super gasoline	8006-61-9	x			0
Extraction gasoline III, low-aromatic (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclic UVCB substance 100%, n-Hexane 1.5%, Toluene 0.1%, Benzene 0.01%)	—, 110-54-3, 108-88-3, 871-43-2	x			0
Benzo[a]pyrene 1%	50-32-8	x			0
Benzoic acid, primary standard p.a.	65-85-0		x		6
Benzene	71-43-2	x			0
Benzyl alcohol	100-51-6	x			0

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Benzyl butyl phthalate 3%	85-68-7	x			4
Benzyl nicotinate	94-44-0		x		6
Epsom salts / Magnesium sulfate	7487-88-9		x		6
Lead in ingots, Cu			x		6
Lead(II) oxide	1317-36-8		x		6
Lead(II) acetate - solution (basic)	6080-56-4	x			0
Lead(II) nitrate	10099-74-8		x		6
Lead(II) nitrate solution 0.1 mol/L	10099-74-8	x			6
Lead(II) sulfate	7446-14-2		x		6
Lead acetate paper (Lead acetate <0.9% (SVHC))	301-04-2		x		6
Lead stearate	1072-35-1		x		6
Lead oxide	1314-41-6		x		6
Lead stearate 28%	1072-35-1		x		6
Boric acid	10043-35-3		x		6
Boron trifluoride diethyl ether complex	109-63-7	x			0
Boron trifluoride methanol complex	373-57-9	x			0
Bromine	7726-95-6		x		0
Butan-2-one (MEK, methyl ethyl ketone)	78-93-3	x			0
Butanone 10%	78-93-3	x			0
Butyl acetate	123-86-4	x			0
Butyl acrylate	141-32-2	x			0
Butyl alcohol 99%	71-36-3	x			1
Butyl diglycol	112-34-5	x			4
Butyl glycol acetate	112-07-2	x			0
Butylated hydroxytoluene	128-37-0	x			0
Calcium carbonate	471-34-1		x		6
Calcium chloride	10043-52-4		x		6
Calcium chloride hexahydrate	7774-34-7		x		6
Calcium chloride solution 34%	10043-52-4, 1305-62-0	x			6
Calcium chloride solution 35%	10043-52-4	x			6
Precipitated pure calcium fluoride	7789-75-5	x			6
Calcium nitrate 45%	13477-34-4	x			6
Caproic acid methyl ester	106-70-7	x			1
Carbon disulfide / carbon disulfide	75-15-0	x			0
Cetylpyridinium chloride monohydrate	6004-24-6		x		6
Chlorine	7782-50-5			x	0

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Chloroacetyl chloride	79-04-9		x		6
4-Chloroaniline	106-47-8		x		0
Chlorobenzene, pure	108-90-7	x			0
Ethyl chloroacetate	105-39-5	x			0
Chlorhexidine 10%	55-56-1	x			6
Chlorhexidine 20%	55-56-1	x			6
Chlorhexidine 25%	55-56-1	x			6
Chlorhexidine 4%	55-56-1	x			6
Chloroform	67-66-3	x			0
Hydrochloric acid / anhydrous hydrogen chloride	7647-01-0			x	0
Chromium(VI) oxide p.a.	1333-82-0			x	6
Chromic sulfuric acid 10%	65272-71-1	x			2
Cisplatin 1.0 mg/mL (Cytostatic)	15663-27-1	x			3
Cobalt(II) chloride (anhydrous)	7646-79-9		x		6
Cobalt(II) chloride hexahydrate	7791-13-1		x		6
Cobalt(II) nitrate hexahydrate	10026-22-9		x		6
Cyclohexane	110-82-7	x			0
Cyclohexanol	108-93-0		x		0
Cyclohexanone	108-94-1	x			0
Denatonium benzoate	3734-33-6		x		6
Di-(t-butylcyclohexyl) peroxydicarbonate	15520-11-3			x	6
Diacetone alcohol	123-42-2	x			0
Diammonium hydrogen citrate	3012-65-5			x	6
Dibutylamine	111-92-2	x			0
Dibutyl phthalate	84-74-2	x			6
Dichloroacetyl chloride	79-36-7	x			0
Dichlorodifluoromethane (R-12)	75-71-8			x	0
Dichloroacetic acid	79-43-6	x			0
Dichloroacetic acid (DCAA) 98%	79-43-6	x			0
Dichloromethane	75-09-2	x			0
Diesel fuel	68476-34-6	x			1
Diethanolamine p.a.	111-42-2	x			0
Diethylamine	109-89-7	x			0
Diethylene glycol	111-46-6	x			6
Diethyl ether	60-29-7	x			0
Diethyl ketone (3-pentanone)	96-22-0	x			0

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Diethyl malonate (malonic acid diethyl ester)	105-53-3	x			1
Diethyl succinate (succinic acid diethyl ester)	123-25-1	x			1
Diisobutyl ketone	108-83-8	x			0
Diisodecyl phthalate for synthesis	26761-40-0	x			2
Diisopropanolamine solution S 90%	110-97-4	x			0
Diisopropyl ether	108-20-3	x			0
Di-potassium hydrogen phosphate	7758-11-4		x		6
Dimethyl sulfoxide	67-68-5	x			0
Dimethylacetamide	127-19-5	x			0
Dimethylaminoazobenzene (Dimethyl Yellow) Indicator	60-11-7	x			0
Dimethylamino-benzaldehyde p.a.	100-10-7	x			0
Dimethyl disulfide (DMS)	624-92-0	x			0
Dimethyl ether	115-10-6	x			0
Dimethylformamide (DMF)	68-12-2	x			0
Dimethyl sulfate	77-78-1	x			0
Disodium metasilicate, pentahydrate	10213-79-3		x		6
2,4-Dinitrophenylhydrazine	119-26-6		x		6
Dioctyl adipate	123-79-5	x			1
Dioctyl phthalate 99% (DOP)	117-81-7	x			6
Dioctyl sulfosuccinate sodium salt	557-11-7		x		6
Dipentaerythritol pentaacrylate phosphate 15%	87699-25-0	x			6
Diphenylamine	122-39-4	x			5
Diphenylmethane-4,4'-diisocyanate	101-68-8		x		0
Diphenylmethane diisocyanate	9016-87-9	x			0
Iron(III) sulfate hydrate	15244-10-7		x		6
Iron(III) sulfate pentahydrate	142906-29-4		x		6
Iron(III) chloride solution 40%	7705-08-0, 017-002-01-x		x		6
Vinegar cleaner		x			2
Acetic acid 10%	64-19-7	x			5
Acetic acid 1M	64-19-7	x			6
Acetic acid 50%	64-19-7	x			1
Acetic acid 80%	64-19-7	x			0
Acetic acid 90%	64-19-7	x			0
Acetic acid 99.5%	64-19-7	x			0
Acetic anhydride (triethylamine)	108-24-7	x			0

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Ethanol	64-17-5	x			0
Ethanol 10%	64-17-5	x			5
Ethanol 35%	64-17-5	x			2
Ethanol 50%	64-17-5	x			1
Ethanol 641 (96%), denatured with 1% 2-butanone	64-17-5, 7732-18-5, 78-93-3	x			0
Ethanol 70%	64-17-5	x			1
Ethanol 80%	64-17-5	x			0
Ethanol 96%, denatured with 1% MEK	64-17-5, 78-93-3	x			0
Ethanol 96%, Ph.Eur., pure	64-17-5	x			0
Ethanolamine	141-43-5	x			0
Ethanolamine 10-15%	141-43-5	x			1
Ethidium bromide 1%	1239-48-8	x			6
Ethidium bromide 5%	1239-48-8	x			6
Ethyl acrylate	140-88-5	x			0
Ethyl acetate	141-78-6	x			0
Ethyl acetate 98/100%	141-78-6	x			0
Ethylbenzene	100-41-4	x			0
Ethylidiglycol	111-90-0	x			5
Ethylenediamine	107-15-3	x			0
Ethylene glycol	107-21-1	x			6
Hydrofluoric acid 1%	7664-39-3	x			4
Hydrofluoric acid 10%	7664-39-3	x			2
Hydrofluoric acid 20%	7664-39-3	x			1
Hydrofluoric acid 37%	7664-39-3	x			0
Hydrofluoric acid 48%	7664-39-3	x			0
Hydrofluoric acid 75%	7664-39-3	x			0
Hydrofluoric acid 90%	7664-39-3	x			0
Formaldehyde 10%	50-00-0	x			6
Formaldehyde 25%	50-00-0	x			6
Formaldehyde 35%	50-00-0	x			6
Formaldehyde 37%	50-00-0	x			6
Formaldehyde 4%	50-00-0	x			6
Fuchsin	632-99-5		x		6
Glutaraldehyde	111-30-8	x			4
Glutaraldehyde 1%	111-30-8	x			6

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Glutaraldehyde 10%	111-30-8	x			6
Glutaraldehyde 15%	111-30-8	x			6
Glutaraldehyde 25%	111-30-8	x			6
Glutaraldehyde 4%	111-30-8	x			6
Glutaraldehyde 50%	111-30-8	x			6
Glycerin	56-81-5	x			6
Glyceryl monothioglycolate 11%	30618-84-9	x			6
Glyceryl monothioglycolate 20%	30618-84-9	x			6
Glycidyltrimethylammonium chloride	3033-77-0, 96-24-2	x			2
Glycolic acid	79-14-1		x		4
Glycolic acid 2%	79-14-1	x			6
Glyoxal 40% w/w aqueous solution	107-22-2	x			1
Urea	57-13-6		x		6
Hexylamine	111-26-2	x			0
Hydranal methanol, dry	67-56-1	x			0
Hydranal solvent	67-56-1, 288-32-4	x			0
Hydranal titrant 5	67-56-1, 7553-56-2	x			0
Hydranal working solution K	67-66-3, 107-07-3	x			0
Hydrazine	7803-57-8	x			1
Hydrazinium sulfate	10034-93-2		x		6
Hydroxylamine hydrochloride (=hydroxylammonium chloride)	5470-11-1		x		6
Iodine	7553-56-2		x		6
Iodine solution 0.05 mol/L	7553-56-2, 7681-11-0	x			6
Iodine monochloride	7790-99-0	x	x		0
Isoamyl alcohol; 3-methyl-1-butanol	123-51-3	x			1
Isobutyl alcohol	78-83-1	x			0
Isooctane	540-81-1	x			1
Isoparaffin		x			0
Isophorone	78-59-1	x			0
Isophorone diamine	2855-13-2	x			0
Isopropanol	67-63-0	x			0
Isopropanol 40%	67-63-0	x			0
Isopropanol 60%	67-63-0	x			0
Isopropanol 70%	67-63-0	x			0
Isopropanol 80%	67-63-0	x			0

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Isopropyl acetate (isopropyl ester of acetic acid)	108-21-4	x			0
Calcium carbonate, anhydrous	584-08-7		x		6
Potassium chromate	7789-00-6		x		6
Potassium hexahydroxoantimonate (V)	12208-13-8		x		6
Potassium hydroxide	1310-58-3		x		6
Potassium hydroxide 30%	1310-58-3	x			6
Potassium hydroxide 45%	1310-58-3	x			6
Potassium hydroxide 50%	1310-58-3	x			6
Potassium hydroxide, saturated	1310-58-3	x			6
Potassium iodide	7681-11-0	x			2
Potassium permanganate	7722-64-7		x		6
Potassium persulfate 100%	7727-21-1	x			2
Kerosene	8008-20-6	x			1
Saline solution 10% (sodium chloride)	7647-14-5	x			6
Saline solution 25% (sodium chloride)	7647-14-5	x			6
Saline solution 50% (sodium chloride)	7647-14-5	x			6
Saline solution, saturated (sodium chloride)	7647-14-5	x			6
Congo red (C.I. 22120)	573-58-0		x		6
Crystal violet	548-62-9		x		6
Copper(II) sulfate, anhydrous	7758-98-7		x		6
L-ascorbic acid test kit	9002-92-0, 500-002-6, 5949-29-1, 201-069-1		x		6
Levulinic acid	123-76-2		x		6
Linalool oxide	60047-17-8	x			0
Maleic acid, saturated	110-16-7	x			6
Maleic anhydride	108-31-6		x		6
Methacrylates (methyl esters of acrylic acid)	96-33-3	x			0
Methacrylic acid	79-41-4	x			1
Methanol	67-56-1	x			0
Methanesulfonic acid	75-75-2	x			0
Methotrexate 25 mg/mL (cytostatic)	59-05-2	x			5
Methoxypropanol 3%	107-98-2	x			0
Methyl ethyl ketone peroxide 37%	338-23-4, 78-93-3	x			0
Methyl methacrylate 99%	80-62-6	x			0
Methylamine 40%	74-89-5	x			6

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Methyl butyl ether 99.8%	1634-04-4	x			0
Methylcyclopentane	96-37-7	x			1
Methylene blue (C.I. 52015)	61-73-4		x		6
Methyl ethyl ketone (butanone)	78-93-3	x			0
Methyl isobutyl ketone (MIBK)	108-10-1	x			0
Methyl methacrylate	80-62-6, 97-63-2	x			0
Methyl methacrylate (stabilized) for synthesis	80-62-6	x			0
Methyl methacrylate, monomer, stabilized	80-62-6	x			0
Methyl orange indicator solution	547-58-0	x			6
Lactic acid	79-33-4	x			6
m-Cresol	203-577-9	x			0
Monoethanolamine 99%		x			6
Morpholine, liquid	110-91-8	x			0
N,N-Dimethylaniline, pure	121-69-7	x			0
N,O-Dimethylhydroxylamine hydrochloride	6638-79-5		x		6
n-Amyl acetate	628-63-4	x			0
n-Amyl alcohol 99%	71-41-0	x			3
Naphthalene	91-20-3		x		6
Sodium azide	26628-22-8		x		6
Sodium bisulfite solution (38-40%)	7631-90-5	x			6
Sodium carbonate	497-19-8	x			6
Sodium carbonate, analytical weight 0.05 mol/L (solid)	497-19-8		x		6
Sodium chloride, industrial salt	7647-14-5		x		6
Sodium bicarbonate (soda)	497-19-8	x			6
Sodium dithionite	7775-14-6		x		6
Sodium fluoride	7681-49-4	x			6
Sodium fluoride	7681-49-4		x		6
Sodium hexafluorosilicate 1%	16893-85-9		x		6
Sodium hexanitrocobaltate (III) (Trisodium hexanitritocobaltate)	13600-98-1		x		6
Sodium hydroxide 0.1 mol/L (0.1 N)	1310-73-2	x			6
Sodium hydroxide 10%	1310-73-2	x			6
Sodium hydroxide 20%	1310-73-2	x			6
Sodium hydroxide 30%	1310-73-2	x			6
Sodium hydroxide 40%	1310-73-2	x			6
Sodium hydroxide 99%, sodium carbonate 1.0%	1310-73-2, 497-19-8	x			6

CHEMICAL	CAS No.	LIQUID	SOLID	GAS	LEVEL
Sodium hypochlorite 10-20%, sodium hydroxide <1%	7681-52-9, 1310-73-2	x			6
Sodium hypochlorite 13%	7681-52-9	x			4
Sodium hypochlorite solution 10-20%, sodium hydroxide <2.5%	7681-52-9, 1310-73-2	x			6
Sodium hypochlorite solution 10-20%, sodium hydroxide, chlorine-based bleach >=30%	7681-52-9, 1310-73-2, —	x			6
Sodium methoxide 30% (=sodium methylate)	124-41-4	x			6
Sodium nitrite	7632-00-0		x		6
Sodium N-lauroyl sarcosinate	137-16-6	x			6
Sodium salicylate	54-21-7		x		6
Sodium sulfide	1313-82-2		x		6
Sodium sulfide hydrate	27610-45-3		x		6
Sodium sulfide nonahydrate	1313-84-4		x		6
Sodium sulfide flakes (sodium sulfide) 62%	1313-82-2		x		6
Sodium tetraborate decahydrate, dihydrate	1303-96-4		x		6
Sodium thiosulfate	7772-98-7		x		6
n-Butyl acetate 50%	123-86-4	x			0
n-Butyl methacrylate	97-88-1	x			0
n-Butyl methyl ether	628-28-4	x			0
n-Heptane	142-82-5	x			0
n-Hexane	110-54-3	x			0
Nicotine 2% LG	54-11-5	x			0
Ninhydrin	485-47-2		x		6
Nitrobenzene	98-5-3	x			0
Nitroprusside sodium dihydrate (sodium pentacyanonitrosylferrate(III) dihydrate)	13755-38-9		x		6
Oxalic acid 12.5%	6153-56-6	x			6
Oxalic acid dihydrate	6153-56-6		x		6
p-Aminophenol 100%	123-30-8		x		0
p-Anisidine	104-94-9		x		6
Liquid paraffin (Vaseline oil)	8042-47-5	x			3
Pararosaniline chloride (C.I. 42500)	569-61-9		x		6
Pentane	109-66-0	x			1

Chemical Breakthrough Times. **StarGuard®** Essential^{PLUS}

CHEMICAL	CAS No.	LIQUID	SOLID	GAS	LEVEL
Peracetic acid 10%	79-21-0	x			2
Peracetic acid 25%	79-21-0	x			1
Peracetic acid 55%	79-21-0	x			0
Petroleum ether	8032-32-4	x			0
Petroleum 180-250°C (Kerosene (Petroleum), hydrodesulfurized)	64742-81-0;	x			0
Petroleum benzine 40-80°C	64742-49-0, 110-54-3	x			0
Phenazone, Antipyrine	60-80-0		x		6
Phenol	108-95-2		x		0
Phenol 10%	108-95-2	x			1
Phenol 90%	108-95-2	x			0
Phenol-1,2-Dichlorobenzene mixture	108-95-2, 95-50-1	x			0
Phenolphthalein - Solution 1% (Ethanol >60-<100%, Phenolphthalein >0.1-<=1%)	64-17-5, 77-09-8	x			6
Phosphorus pentoxide	1314-56-3		x		6
Phosphoric acid 10%	7664-38-2	x			6
Phosphoric acid 85%	7664-38-2	x			1
Phthalic anhydride	85-44-9		x		6
Propan-1-ol 40-50%	71-23-8	x			0
Propanol	71-23-8	x			0
Propyl acetate	109-60-4	x			0
p-Toluene sulfonamide	70-55-3	x			2
Pyridine	110-86-1	x			0
Mercury	7439-97-6	x			3
Mercury(II) acetate	1600-27-7		x		6
Mercury(II) chloride	7487-94-7		x		6
Mercury(II) iodide	7774-29-0		x		6
R-(+)-Limonene	5989-27-5	x			2
Resorcinol	108-46-3		x		6
Ammonia solution 15%	1336-21-6	x			0
Nitric acid 10%	7697-37-2	x			4
Nitric acid 36%	7697-37-2	x			0
Nitric acid 55%	7697-37-2	x			0
Nitric acid 65%	7697-37-2	x			0

CHEMICAL	CAS No.	LIQUID	SOLID	GAS	LEVEL
Nitric acid 70%	7697-37-2	x			0
Nitric acid, alcoholic, 3% (Ethanol 97%, Nitric acid 3%)	64-17-5, 7697-37-2	x			0
Hydrochloric acid 10%	7647-01-0	x			6
Hydrochloric acid 18%	7647-01-0	x			6
Hydrochloric acid 25-38%	7647-01-0	x			0
Hydrochloric acid 30%	7647-01-0	x			0
Hydrochloric acid 31%	7647-01-0	x			0
Hydrochloric acid 33%	7647-01-0	x			0
Hydrochloric acid 36%	7647-01-0	x			0
Hydrochloric acid 37%	7647-01-0	x			0
Hydrochloric acid 50%	7647-01-0	x			0
Sulfuric acid 20%	7664-93-9	x			6
Sulfuric acid 37.5% (Battery acid)	7664-93-9	x			2
Sulfuric acid 38%	7664-93-9	x			2
Sulfuric acid 45%	7664-93-9	x			2
Sulfuric acid 50%	7664-93-9	x			2
Sulfuric acid 95%	7664-93-9	x			0
Silver diamine fluoride 38%	34445-07-3	x			6
Silicon dioxide	60676-86-0		x		6
Turpentine	8006-64-2	x			0
tert-Butanol	75-65-0		x		0
tert-Butyl acrylate	1663-39-4	x			0
Tetrabutylammonium hydrogen sulfate	32503-27-8		x		6
Tetrachloroethylene	127-18-4	x			0
Carbon tetrachloride	56-23-5	x			0
Tetrahydrofuran	109-99-9	x			0
Tetramethylammonium hydroxide	75-59-2		x		6
Tetramethylammonium hydroxide pentahydrate	10424-65-4		x		6
Tetramethylammonium hydroxide solution	75-59-2	x			1
Thioacetamide	62-55-5		x		6
Thioglycolic acid 11%	68-11-1	x			3
Thioglycolic acid	68-11-1		x		6

Chemical Breakthrough Times. **StarGuard® Essential^{PLUS}**

CHEMICAL	CAS No.	LIQUID	SOLID	GAS	LEVEL
Thiourea	62-56-6		x		6
Thymol	89-83-8		x		2
Toluene-2,5-diamine 10%	95-70-5		x		1
Toluene	108-88-3	x			0
Toluene ≥ 99.5%, for synthesis	108-88-3	x			0
Tri(propylene glycol) diacrylate	42978-66-5	x			0
Trichloroacetic acid 50%	76-03-9	x			0
Trichloroethylene	79-01-6	x			0
Triethylamine	121-44-8	x			0
Triethylene glycol dimethacrylate	109-16-0	x			0
Trifluoroacetic acid (TFA)	76-05-01	x			0
Tricresyl phosphate 90%	1330-78-5	x			0
tri-Sodium phosphate anhydrous	7601-54-9		x		6
Vincristine sulfate 1.0 mg/mL (Cytostatic)	2068-78-2	x			3
Vinyl acetate monomer	108-05-4	x			0
Hydrogen peroxide 10%	7722-84-1	x			6
Hydrogen peroxide 12%	7722-84-1	x			6
Hydrogen peroxide 18%	7722-84-1	x			6
Hydrogen peroxide 3%	7722-84-1	x			6
Hydrogen peroxide 30%	7722-84-1	x			2
Hydrogen peroxide 33%	7722-84-1	x			0
Hydrogen peroxide 35%	7722-84-1	x			0
Xylene	108-38-3	x			0
Xylene, o-	95-47-6	x			0

CHEMICAL	CAS No.	LIQUID	SOLID	GAS	LEVEL
Zinc chloride	7646-85-7	x			6
Citric acid 10%	77-92-9	x			6
Citric acid 100%	77-92-9	x			4
Citric acid 50%	77-92-9	x			4
Citric acid anhydrous	77-92-9		x		6
Citric acid crystal water-free, pure	77-92-9		x		6
Citric acid monohydrate p.a.	5949-29-1		x		6
Citric acid p.a.	77-92-9	x			6
Citric acid anhydrous, grains	77-92-9		x		6

Breakthrough times and permeation levels are based on laboratory measurements and are determined from palm samples. (with the exception of the case where the glove is 400 mm or longer – in this case the cuff is also tested) and refers only to the tested chemicals. This information does not reflect the actual duration of protection in the workplace and the differentiation between mixtures and pure chemical. It is recommended to check that the gloves are suitable for the intended use because the conditions at the workplace may differ from the type test depending on temperature, abrasion and degradation.

StarGuard® Essential^{PLUS} is manufactured by AMPri Handelsgesellschaft mbH.

Level 1	>10 mins
Level 2	>30 mins
Level 3	>60 mins
Level 4	>120 mins
Level 5	>240 mins
Level 6	>480 mins



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