

# Chemical Compatibility Guide for: Showa-Best Nitri Solve®

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The pinnacle of chemical-resistance, comfort and grip, Showa's Nitri-Solve WPL588 is a flock-lined, 15 mil glove designed with the full scope of performance in mind.

## Ratings



CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Ethanol, 2,2'-Iminobis-	111-42-2	E	E	E	E	NT	
Ethanol, 2,2'-Oxybis-   99%	111-46-6	E	E	E	E	NT	
Methane, Sulfinylbis-	67-68-5	E	G	G	P	NT	
1,2-Propanediol	57-55-6	E	E	E	E	NT	
1-Acetoxy-pentane	628-63-7	E	E	F	P	NT	
1-Propoxy-2-Propanol	1569-01-3	E	E	E	E	NT	
2-(2-Propoxyethoxy)ethanol	6881-94-3	E	E	E	E	NT	
2,2,4-Trimethyl Pentane	540-84-1	E	E	E	E	NT	
2,2,2'-Nitrilotriethanol	102-71-6	E	E	E	E	NT	
2,2'-Dimorpholinodiethylether	6425-39-4	NT	NT	NT	NT	NT	
2-Bromoethyl Acetate	927-68-4	E	NR	NR	NR	NT	
2-Chloro-2-Oxoethyl Acetate	13831-31-7	E	G	F	F	NT	
2-Hydroxypropionic Acid   85%	50-21-5	E	E	E	E	NT	
2-Propoxyethanol	2807-30-9	E	E	E	F	NT	
4-Methyl-Meta-Phenylene Diisocyanate	584-84-9	E	E	G	P	NT	
4-Methylmorpholine N-Oxide	7529-22-8	NT	NT	NT	NT	NT	
ABL	143-07-7	E	E	E	E	NT	
Acetaldehyde	75-07-0	G	NR	NR	NR	NT	
Acetate, 2-Chloro-2-Oxoethyl	13831-31-7	E	G	F	F	NT	
Acetic Acid   84%	64-19-7	E	E	G	F	NT	
Acetic Acid 3-Methylbutyl Ester	123-92-2	E	E	E	G	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Acetic Acid Ethenyl Ester	108-05-4	F	P	P	P	NT	
Acetic Acid Isopropyl Ester   98%	108-21-4	E	E	G	P	NT	
Acetic Acid Propyl Ester	109-60-4	E	F	P	NR	NT	
Acetic Aldehyde	75-07-0	G	NR	NR	NR	NT	
Acetone	67-64-1	F	NR	NR	NR	NT	
Acetonitrile	75-05-8	E	F	F	F	NT	
Acetophenone	98-86-2	G	NR	NR	NR	NT	
Acetoxyacetyl Chloride	13831-31-7	E	G	F	F	NT	
Acetoxybutane	123-86-4	E	G	F	NR	NT	
Acetoxyethylene	108-05-4	F	P	P	P	NT	
Acetoxypentane, 1-	628-63-7	E	E	F	P	NT	
Acetoxyp propane, 2-   98%	108-21-4	E	E	G	P	NT	
Acetylbenzene	98-86-2	G	NR	NR	NR	NT	
ACN	75-05-8	E	F	F	F	NT	
Acrylamide   50%	79-06-1	E	E	E	E	NT	
Acrylonitrile	107-13-1	F	NR	NR	NR	NT	
Act 690 C4X1G Solvent Stripper	8141-43-5	NT	NT	NT	NT	NT	
Act 935 UP Photoresist Stripper	9141-43-5	NT	NT	NT	NT	NT	
Act 970 Photoresist Stripper	9109-83-1	NT	NT	NT	NT	NT	
Act XT1100 Mixture	9872-50-4	NT	NT	NT	NT	NT	
Aeroshell Grease 22	56280-00-0	E	E	E	E	NT	
Aldehyde, Ethyl	75-07-0	G	NR	NR	NR	NT	
Alkasol 27	Mixture	E	E	E	E	NT	
Allyl Alcohol   99%	107-18-6	E	G	F	F	NT	
Alodine 1000 Solution	Mixture	E	E	E	E	NT	
Alodine 1200S Solution	Mixture	E	E	E	E	NT	
Alvania Grease 3	57120-00-0	E	E	E	E	NT	
Aminobenzene	62-53-3	F	NR	NR	NR	NT	
Aminobutane, 1-	109-73-9	F	NR	NR	NR	NT	
Aminoethanol, 2-   100%	141-43-5	E	E	E	E	NT	
Aminomethane   100%	74-89-5	E	E	E	E	NT	
Aminotoluene, 2-	95-53-4	E	P	NR	NR	NT	
Ammonia (Gas)	7664-41-7	E	E	E	E	NT	
Ammonia Solution   29%	1336-21-6	E	E	E	E	NT	
Ammonium Hydroxide	1336-21-6	E	E	E	E	NT	
Ammonium Hydroxide   29%	1336-21-6	E	E	E	E	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Amyl Acetate	628-63-7	E	E	F	P	NT	
Amyl Alcohol	71-41-0	E	E	E	E	NT	
Anhydrous Ammonia (Gas)	7664-41-7	E	E	E	E	NT	
Anhydrous Hydrazine	302-01-2	E	E	E	E	NT	
Aniline	62-53-3	F	NR	NR	NR	NT	
Antimony Tributyrate	53856-17-0	NT	NT	NT	NT	NT	
Aqua Regia	8007-56-5	E	E	E	E	NT	
Ashland Act 690 C4X1G Solvent Stripper	8141-43-5	NT	NT	NT	NT	NT	
Ashland Act 935 UP Photoresist Stripper	9141-43-5	NT	NT	NT	NT	NT	
Ashland Act 970 Photoresist Stripper	9109-83-1	NT	NT	NT	NT	NT	
Ashland Act XT1100 Mixture	9872-50-4	NT	NT	NT	NT	NT	
Banana Oil   100%	123-92-2	E	E	E	G	NT	
Battery Acid	7664-93-9	E	E	E	E	NT	
Benzaldehyde	100-52-7	F	NR	NR	NR	NT	
Benzenamine	62-53-3	F	NR	NR	NR	NT	
Benzene	71-43-2	E	G	P	P	NT	
Benzene Chloride	108-90-7	E	P	NR	NR	NT	
Benzene, Dimethyl	1330-20-7	E	G	F	NR	NT	
Benzenedicarboxylic Acid Dibutyl Ester, 1,2-	84-74-2	E	E	E	E	NT	
Benzenemethanol	100-51-6	E	E	E	E	NT	
Benzol	71-43-2	E	G	P	P	NT	
Benzyl Alcohol	100-51-6	E	E	E	E	NT	
Biphenyl   27%	92-52-4	E	E	E	F	NT	
Bis(4-isocyanatophenyl)methane	101-68-8	NT	NT	NT	NT	NT	
Blasocut 2000 Universal	Mixture	E	E	E	E	NT	
Blasocut 4000 Universal	Mixture	E	E	E	E	NT	
Bleach: Sodium Hypochlorite	7681-52-9	E	E	E	E	NT	
BOEING CASCADE COLUMBIA 3 PART	Mixture	E	E	E	G	NT	
BOEING TURCO 6709	90107-98-4	E	E	E	G	NT	
Boric Acid - Sulfuric Acid Mixture	Mixture	E	E	E	E	NT	
Bromoethyl Acetate, 2-	927-68-4	E	NR	NR	NR	NT	
Bromoform	75-25-2	G	NR	NR	NR	NT	
Brulín MP 1793 Hydrocarbon Mixture	Mixture	E	E	E	E	NT	
Butadiene, 1,3-	106-99-0	E	E	E	E	NT	
Butanoic Acid, Antimony(3+) Salt	53856-17-0	NT	NT	NT	NT	NT	
Butanol	71-36-3	E	E	E	E	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Butanone Oxime	96-29-7	P	NR	NR	NR	NT	
Butanone, 2-	78-93-3	NR	NR	NR	NR	NT	
Butoxydiglycol	112-34-5	E	E	E	G	NT	
Butoxydipropylene glycol	29911-28-2	E	E	E	E	NT	
Butoxyethanol	111-76-2	E	E	E	E	NT	
Butoxyethyl Acetate, 2-	112-15-2	E	E	E	E	NT	
Butoxypropanol	5131-66-8	E	E	E	E	NT	
Butoxytriethylene Glycol	143-22-6	E	E	G	G	NT	
Butoxytriglycol	143-22-6	E	E	G	G	NT	
Butyl 2-Propenoate   100%	141-32-2	E	E	G	P	NT	
Butyl Acetate	123-86-4	E	G	F	NR	NT	
Butyl Acetate   100%	123-86-4	E	G	F	NR	NT	
Butyl Acrylate   100%	141-32-2	E	E	G	P	NT	
Butyl Alcohol	71-36-3	E	E	E	E	NT	
Butyl Carbinol	71-41-0	E	E	E	E	NT	
Butyl Carbitol Solvent	112-34-5	E	E	E	G	NT	
Butyl Carbitol Solvent   100%	112-34-5	E	E	E	G	NT	
Butyl Cellosolve Acetate	112-07-2	E	E	E	E	NT	
Butyl Cellosolve Solvent	111-76-2	E	E	E	E	NT	
Butyl Cellosolve Solvent   100%	111-76-2	E	E	E	E	NT	
Butyl Dipropasol Solvent	29911-28-2	E	E	E	E	NT	
Butyl Ethanoate	123-86-4	E	G	F	NR	NT	
Butyl Ethylene	592-41-6	E	E	E	E	NT	
Butyl Propasol Solvent	5131-66-8	E	E	E	E	NT	
Butyl Toluene, P-Tert	98-51-1	E	E	E	E	NT	
Butylamine	109-73-9	F	NR	NR	NR	NT	
Caprinus U Multigrade Railroad Oil	Mixture	E	E	E	E	NT	
Carbitol Acetate	112-15-2	E	E	E	E	NT	
Carbolic Acid	108-95-2	F	NR	NR	NR	NT	
Carbon Disulfide	75-15-0	G	F	NR	NR	NT	
Carbon Tetrachloride	56-23-5	E	E	E	E	NT	
Cascade Columbia 3 Part A	Mixture	E	E	E	G	NT	
CASCADE COLUMBIA 3 PART A	Mixture	E	E	E	G	NT	
Caustic Potash	1310-58-3	E	E	E	E	NT	
Caustic Soda	1310-73-2	E	E	E	E	NT	
Cellosolve Solvent	110-80-5	E	G	P	NR	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Chloride, Methyl (Gas)	74-87-3	E	E	E	E	NT	
Chloride, Methylene	75-09-2	NR	NR	NR	NR	NT	
Chloride, Vinyl (Gas)	75-01-4	E	E	E	E	NT	
Chlorine (Gas)	7782-50-5	E	E	E	E	NT	
Chlorobenzene	108-90-7	E	P	NR	NR	NT	
Chloroform	67-66-3	NR	NR	NR	NR	NT	
Chloroform, Methyl	71-55-6	E	E	G	NR	NT	
Chloropropylene Oxide, 3-	106-89-8	P	NR	NR	NR	NT	
Chromic Acid	1333-82-0	E	E	E	E	NT	
Chromium Trioxide	1333-82-0	E	E	E	E	NT	
Citra-Safe Deodorizer	Mixture	E	E	E	E	NT	
Citric Acid   30%	77-92-9	E	E	E	E	NT	
Citrus Terpenes Mixture	68956-56-9	E	E	E	E	NT	
Corn Oil	8001-30-7	E	E	E	E	NT	
Cresols	1319-77-3	E	G	P	NR	NT	
Cresylic Acid	1319-77-3	E	G	P	NR	NT	
Cumene	98-82-8	G	F	NR	NR	NT	
Cyanethylene	107-13-1	F	NR	NR	NR	NT	
Cyanoethene	107-13-1	F	NR	NR	NR	NT	
Cyanomethane	75-05-8	E	F	F	F	NT	
Cyclohexane	110-82-7	E	E	E	E	NT	
Cyclohexanol	108-93-0	E	E	E	E	NT	
Cyclohexanone	108-94-1	E	F	NR	NR	NT	
Cyclohexyl Alcohol	108-93-0	E	E	E	E	NT	
Cyclohexyl Ketone	108-94-1	E	F	NR	NR	NT	
Cyclohexyldimethylamine	98-94-2	NT	NT	NT	NT	NT	
Daraclean 282	Mixture	E	E	E	E	NT	
DEA	109-89-7	E	G	F	P	NT	
Dedaconoic acid	143-07-7	E	E	E	E	NT	
DEOA	111-42-2	E	E	E	E	NT	
Deoxidizer 16 Replenisher	Mixture	E	E	E	E	NT	
Desoclean 45	Mixture	F	P	NR	NR	NT	
Diaminoethane, 1,2-   99%	107-15-3	E	E	G	G	NT	
Dianilinemethane	101-77-9	G	NR	NR	NR	NT	
DIBK	108-83-8	E	E	E	E	NT	
Dibutyl Phenyl Phosphate	2528-36-1	E	E	G	F	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Dibutyl Phthalate N-	84-74-2	E	E	E	E	NT	
Dibutyl Phthalate N- (DBP)	84-74-2	E	E	E	E	NT	
Dichlorobenzene O-	95-50-1	E	P	NR	NR	NT	
Dichloroethane 1,2-	107-06-2	P	NR	NR	NR	NT	
Dichloroethane, 1,2-	107-06-2	P	NR	NR	NR	NT	
Dichloroethene, 1,1-	75-35-4	G	NR	NR	NR	NT	
Dichloroethylene, 1,1-	75-35-4	G	NR	NR	NR	NT	
Dichlorofluoroethane	1717-00-6	E	E	G	P	NT	
Dichloromethane	75-09-2	NR	NR	NR	NR	NT	
Dichloropentane	628-76-2	NT	NT	NT	NT	NT	
Dichlorotrifluoroethane	306-83-2	F	NR	NR	NR	NT	
Diesel Fuel	77650-28-3	E	E	E	E	NT	
Diethanolamine	111-42-2	E	E	E	E	NT	
Diethyl Ether	60-29-7	E	E	E	G	NT	
Diethylamine	109-89-7	E	G	F	P	NT	
Diethylene Glycol   99%	111-46-6	E	E	E	E	NT	
Diethylene Glycol Monobutyl Ether	112-34-5	E	E	E	G	NT	
Diethylene Glycol Monoethyl Ether Acetate	112-15-2	E	E	E	E	NT	
Diethylene Glycol Monohexyl Ether	112-59-4	E	E	E	E	NT	
Diethylene Glycol Monomethyl Ether	111-77-3	E	E	E	E	NT	
Diethylene Glycol Monomethyl Ether   100%	111-77-3	E	E	E	E	NT	
Diethylene Glycol Monopropyl Ether	6881-94-3	E	E	E	E	NT	
Diethylene Oxide	109-99-9	E	NR	NR	NR	NT	
Diethylene Oximide	110-91-8	E	P	NR	NR	NT	
Dihydroxyethane	107-21-1	E	E	E	E	NT	
Diisobutyl Ketone	108-83-8	E	E	E	E	NT	
Dimethyl Benzene	1330-20-7	E	G	F	NR	NT	
Dimethyl Formamide	68-12-2	P	P	P	P	NT	
Dimethyl Ketone	67-64-1	F	NR	NR	NR	NT	
Dimethyl Methyl Phosphonate	756-79-6	NT	NT	NT	NT	NT	
Dimethyl Propaneamide, N,N'-	109-55-7	NT	NT	NT	NT	NT	
Dimethyl Sulfate	77-78-1	E	E	G	F	NT	
Dimethyl-4-Heptanone, 2,6-	108-83-8	E	E	E	E	NT	
Dimethylacetamide N,N-   100%	127-19-5	P	NR	NR	NR	NT	
Dimethylacetamide N,N- (DMAC)   100%	127-19-5	P	NR	NR	NR	NT	
Dimethylaminocyclo Hexane	98-94-2	NT	NT	NT	NT	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Dimethylcyclohexyl Amine	98-94-2	NT	NT	NT	NT	NT	
Dimethylformamide (DMF)	68-12-2	P	P	P	P	NT	
Dimethylpiperazine	106-58-1	NT	NT	NT	NT	NT	
Dimethylsulfoxide (DMSO)	67-68-5	E	G	G	P	NT	
Dinitrol AV30	Mixture	E	E	E	E	NT	
Dinitrol AV30 Spray	Mixture	E	E	E	E	NT	
Dinitrol AV8 MOD	Mixture	E	E	E	E	NT	
Dinitrotoluene   40%	121-14-2	G	P	NR	NR	NT	
Dinitrotoluene, 2,4- (DNT)   40%	121-14-2	G	P	NR	NR	NT	
Dioxane 1,4-   100%	123-91-1	G	F	NR	NR	NT	
Diphenyl Ether   73%	101-84-8	E	E	E	F	NT	
Diphenylmethane Diisocyanate	101-68-8	NT	NT	NT	NT	NT	
Dipropasol Glycol Monobutyl Ether	29911-28-2	E	E	E	E	NT	
Dipropylene Glycol Monobutyl Ether	29911-28-2	E	E	E	E	NT	
Divinyl Benzene	1321-74-0	E	E	G	NR	NT	
D-Limonene	5989-27-5	E	E	E	E	NT	
DNT	121-14-2	G	P	NR	NR	NT	
Dodecanoic acid	143-07-7	E	E	E	E	NT	
Donax TG Transmission Fluid	Mixture	E	E	E	E	NT	
Dowtherm 209	107-98-2	E	E	E	G	NT	
Dowtherm, Biphenyl   27%	92-52-4	E	E	E	F	NT	
Dry Cleaning Mineral Spirits	8052-41-3	E	E	E	E	NT	
Dry Cleaning Safety Solvent	8052-41-3	E	E	E	E	NT	
Dubl-Chek Penetrant Mixture	Mixture	E	E	E	E	NT	
Edamine   99%	107-15-3	E	E	G	G	NT	
Epichlorohydrin	106-89-8	P	NR	NR	NR	NT	
Epoxy Ethane, 1,2-	75-21-8	E	E	E	E	NT	
Epoxypropane Chloride, 2,3-	106-89-8	P	NR	NR	NR	NT	
Epoxypropane, 1,2-	75-56-9	NR	NR	NR	NR	NT	
Ethanal	75-07-0	G	NR	NR	NR	NT	
Ethanamine, N-Ethyl-	109-89-7	E	G	F	P	NT	
Ethane, 1,1,1-trichloro-	71-55-6	E	E	G	NR	NT	
Ethane, 1,2-Epoxy-	75-21-8	E	E	E	E	NT	
Ethane, Trichlorofluoro-	76-13-1	E	E	E	E	NT	
Ethanediol, 1,2-	107-21-1	E	E	E	E	NT	
Ethanoic acid   84%	64-19-7	E	E	G	F	NT	



CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Ethanol	64-17-5	E	E	E	G	NT	
Ethanol, 2-Ethoxy-	110-80-5	E	G	P	NR	NT	
Ethanolamine   100%	141-43-5	E	E	E	E	NT	
Ethenyl Acetate	108-05-4	F	P	P	P	NT	
Ethenyl Ethanoate	108-05-4	F	P	P	P	NT	
Ethoxyethanol, 2-	110-80-5	E	G	P	NR	NT	
Ethoxytriglycol	112-50-5	E	E	E	E	NT	
Ethoxytriglycol   100%	112-50-5	E	E	E	E	NT	
Ethyl Acetate	141-78-6	E	F	P	P	NT	
Ethyl Acetate   100%	141-78-6	E	F	P	P	NT	
Ethyl Alcohol	64-17-5	E	E	E	G	NT	
Ethyl Aldehyde	75-07-0	G	NR	NR	NR	NT	
Ethyl Benzene	100-41-4	E	G	G	NR	NT	
Ethyl Butanol	97-95-0	E	E	E	E	NT	
Ethyl Ether	60-29-7	E	E	E	G	NT	
Ethyl nitrile	75-05-8	E	F	F	F	NT	
Ethyl Phosphate	78-40-0	NT	NT	NT	NT	NT	
Ethylacetone   100%	107-87-9	F	NR	NR	NR	NT	
Ethylbutyl Alcohol, 2-	97-95-0	E	E	E	E	NT	
Ethylcarbinol	71-23-8	E	E	E	E	NT	
Ethyldiglycol Acetate	112-15-2	E	E	E	E	NT	
Ethylene Dichloride	107-06-2	P	NR	NR	NR	NT	
Ethylene Glycol	107-21-1	E	E	E	E	NT	
Ethylene Glycol Monobutyl Ether	111-76-2	E	E	E	E	NT	
Ethylene Glycol Monobutyl Ether Acetate	112-07-2	E	E	E	E	NT	
Ethylene Glycol Monoethyl Ether	110-80-5	E	G	P	NR	NT	
Ethylene Glycol Monohexyl Ether	112-25-4	E	E	E	E	NT	
Ethylene Glycol Monohexyl Ether   100%	112-25-4	E	E	E	E	NT	
Ethylene Glycol Monopropyl Ether	2807-30-9	E	E	E	F	NT	
Ethylene Oxide	75-21-8	E	E	E	E	NT	
Ethylene, Trichloride	79-01-6	G	NR	NR	NR	NT	
Ethylenediamine   99%	107-15-3	E	E	G	G	NT	
EtOAc	141-78-6	E	F	P	P	NT	
FCC-55	Mixture	G	NR	NR	NR	NT	
Fir Oil	8006-64-2	E	E	E	E	NT	
Fire & Ice 2000 10W Oil	60015-00-0	E	E	E	E	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Fluoboric Acid	16872-11-0	E	E	E	E	NT	
Formaldehyde	50-00-0	E	E	E	E	NT	
Formaldehyde   37%	50-00-0	E	E	E	E	NT	
Formalin   37%	50-00-0	E	E	E	E	NT	
Formamide, N,N-dimethyl-	68-12-2	P	P	P	P	NT	
Formic Acid   90%	64-18-6	G	P	NR	NR	NT	
Formic Aldehyde   37%	50-00-0	E	E	E	E	NT	
Freon 113	76-13-1	E	E	E	E	NT	
Freon 141	1717-00-6	E	E	G	P	NT	
Furaldehyde, 2-	98-01-1	F	NR	NR	NR	NT	
Furan-2-carboxaldehyde	98-01-1	F	NR	NR	NR	NT	
Furfural	98-01-1	F	NR	NR	NR	NT	
Gallotannin	1401-55-4	E	E	E	E	NT	
Gasoline (Unleaded)	8006-61-9	E	E	E	E	NT	
Genetron® 141B	1717-00-6	E	E	G	P	NT	
Genetron® 113	76-13-1	E	E	E	E	NT	
Glacial Acetic Acid   84%	64-19-7	E	E	G	F	NT	
Glutaraldehyde   50%	111-30-8	E	E	E	E	NT	
Glyphosate	1071-83-6	E	E	E	E	NT	
Heptane   100%	142-82-5	E	E	E	E	NT	
Hexalin	108-93-0	E	E	E	E	NT	
Hexane	110-54-3	E	E	E	E	NT	
Hexene	592-41-6	E	E	E	E	NT	
Hexyl Carbitol Solvent	112-59-4	E	E	E	E	NT	
Hexyl Carbitol Solvent   100%	112-59-4	E	E	E	E	NT	
Hexyl Cellosolve Solvent	112-25-4	E	E	E	E	NT	
Hexyldiglycol	112-59-4	E	E	E	E	NT	
Hexylglycol	112-25-4	E	E	E	E	NT	
HF	7664-39-3	E	E	E	P	NT	
Huntsman Jeffcat DMDEE	6425-39-4	NT	NT	NT	NT	NT	
Huntsman Methylmorpholine	7529-22-8	NT	NT	NT	NT	NT	
Hydrazine Hydrate	302-01-2	E	E	E	E	NT	
Hydrochloric Acid	7647-01-0	E	E	E	E	NT	
Hydrofluoric Acid	7664-39-3	E	E	E	P	NT	
Hydrogen Chloride (Gas)	7647-01-2	E	E	E	E	NT	
Hydrogen Fluoride (Gas)	7664-39-3	E	E	E	E	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Hydrogen Peroxide	7722-84-1	E	E	E	E	NT	
Hydroxybenzene	108-95-2	F	NR	NR	NR	NT	
Hydroxypropene   99%	107-18-6	E	G	F	F	NT	
Hydroxypropionic Acid, 2-   85%	50-21-5	E	E	E	E	NT	
Iminodiethanol, 2,2-	111-42-2	E	E	E	E	NT	
Iodide, Methyl	74-88-4	F	NR	NR	NR	NT	
Iodomethane	74-88-4	F	NR	NR	NR	NT	
IPA	67-63-0	E	E	E	E	NT	
Isoamyl Acetate   100%	123-92-2	E	E	E	G	NT	
Isoamyl Alcohol   100%	123-51-3	E	E	E	E	NT	
Isoamyl Alcohol   100%	123-51-3	E	E	E	E	NT	
Isobutanol	78-83-1	E	E	E	E	NT	
Isobutylcarbinol   100%	123-51-3	E	E	E	E	NT	
Isohexylalcohol	97-95-0	E	E	E	E	NT	
Iso-Octane	540-84-1	E	E	E	E	NT	
Isopentanol   100%	123-51-3	E	E	E	E	NT	
Isopentyl Acetate   100%	123-92-2	E	E	E	G	NT	
Isopentyl Alcohol   100%	123-51-3	E	E	E	E	NT	
Isopropanol	67-63-0	E	E	E	E	NT	
Isopropyl Acetate   98%	108-21-4	E	E	G	P	NT	
Isopropyl Alcohol	67-63-0	E	E	E	E	NT	
Isopropyl Carbinol	78-83-1	E	E	E	E	NT	
Isopropylacetone	108-10-1	E	G	P	NR	NT	
Isopropylbenzene	98-82-8	G	F	NR	NR	NT	
Isovalerone	108-83-8	E	E	E	E	NT	
Jet Fuel A	Mixture	E	E	E	E	NT	
Jet Fuel JP-4	Mixture	E	E	E	E	NT	
Jet Fuel JP-8	Mixture	E	E	E	E	NT	
JET FUEL JP-8	Mixture	E	E	E	E	NT	
Kerosene	8008-20-6	E	E	E	E	NT	
KOH	1310-58-3	E	E	E	E	NT	
Lacquer Thinner #1025 (Star Brand)	Mixture	G	NR	NR	NR	NT	
Lacquer Thinner #305 (Acme Brand)	Mixture	E	NR	NR	NR	NT	
Lacquer Thinner #887 (Acme Brand)	Mixture	G	G	F	P	NT	
Lacquer Thinner #RK120 (Sherwin Williams)	Mixture	E	G	F	P	NT	
Lacquer Thinner #RK22 (Sherwin Williams)	Mixture	G	NR	NR	NR	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Lacquer Thinner (EZ Brand)	Mixture	G	P	NR	NR	NT	
LACQUER THINNER 887 ACME BRAND	Mixture	G	G	F	P	NT	
Lactic Acid	50-21-5	E	E	E	E	NT	
Lactic Acid   85%	50-21-5	E	E	E	E	NT	
Lauric Acid	143-07-7	E	E	E	E	NT	
Ligroine	8032-32-4	E	E	E	E	NT	
Limonene D-	5989-27-5	E	E	E	E	NT	
L-Turpentine	8006-64-2	E	E	E	E	NT	
Madrella P 150 Oil	Mixture	E	E	E	E	NT	
MEK/SBA	Mixture	E	G	F	P	NT	
Methacrylate, Methyl	80-62-6	E	F	P	NR	NT	
Methanoic Acid   90%	64-18-6	G	P	NR	NR	NT	
Methanol	67-56-1	E	E	G	G	NT	
Methoxyisopropanol	107-98-2	E	E	E	G	NT	
Methoxytriglycol	112-35-6	E	E	E	G	NT	
Methoxytriglycol   100%	112-35-6	E	E	E	G	NT	
Methyl Acetate	79-20-9	G	NR	NR	NR	NT	
Methyl Alcohol	67-56-1	E	E	G	G	NT	
Methyl Benzene	108-88-3	E	F	P	NR	NT	
Methyl Butanol, 3-   100%	123-51-3	E	E	E	E	NT	
Methyl Carbitol™ Solvent	111-77-3	E	E	E	E	NT	
Methyl Chloride (Gas)	74-87-3	E	E	E	E	NT	
Methyl Chloroform	71-55-6	E	E	G	NR	NT	
Methyl Cyanide	75-05-8	E	F	F	F	NT	
Methyl Ethyl Ketone (MEK)	78-93-3	NR	NR	NR	NR	NT	
Methyl Ethyl Ketoxime	96-29-7	P	NR	NR	NR	NT	
Methyl Iodide	74-88-4	F	NR	NR	NR	NT	
Methyl Isobutyl Ketone	108-10-1	E	G	P	NR	NT	
Methyl Isobutyl Ketone (MIBK)	108-10-1	E	G	P	NR	NT	
Methyl Isobutyl Ketoxime (MIBKO)	105-44-2	NT	NT	NT	NT	NT	
Methyl Methacrylate	80-62-6	E	F	P	NR	NT	
Methyl Phenyl Ketone	98-86-2	G	NR	NR	NR	NT	
Methyl Phenylene Diisocyanate	584-84-9	E	E	G	P	NT	
Methyl Propasol Solvent	107-98-2	E	E	E	G	NT	
Methyl Propyl Ketone (MPK)   100%	107-87-9	F	NR	NR	NR	NT	
Methyl Propyl Ketone (MPK)   100%	107-87-9	F	NR	NR	NR	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Methyl Pyrrolidone, N-	872-50-4	E	E	E	E	NT	
Methyl Tribromide	75-25-2	G	NR	NR	NR	NT	
Methyl-2-Pentanone, 4-	108-10-1	E	G	P	NR	NT	
Methylamine   100%	74-89-5	E	E	E	E	NT	
Methylaniline, 2-	95-53-4	E	P	NR	NR	NT	
Methylbutyl Ethanoate, 3-   100%	123-92-2	E	E	E	G	NT	
Methyldiglycol	111-77-3	E	E	E	E	NT	
Methylene Biphenyl Isocyanate (MDI)	101-68-8	NT	NT	NT	NT	NT	
Methylene Chloride	75-09-2	NR	NR	NR	NR	NT	
Methylene Oxide   100%	74-89-5	E	E	E	E	NT	
Methylene Oxide   37%	50-00-0	E	E	E	E	NT	
Methylenedianiline, 4,4-	101-77-9	G	NR	NR	NR	NT	
Methylenedianiline, 4,4- (MDA)	101-77-9	G	NR	NR	NR	NT	
Methylethyl Acetate, 1-   98%	108-21-4	E	E	G	P	NT	
Methylidyne Trichloride	67-66-3	NR	NR	NR	NR	NT	
Methylphenol Tricresol	1319-77-3	E	G	P	NR	NT	
Methyl-Tert-Butyl Ether	1634-04-4	E	E	E	E	NT	
Metricide   50%	111-30-8	E	E	E	E	NT	
Metylemorpholine	7529-22-8	NT	NT	NT	NT	NT	
MIBK	108-10-1	E	G	P	NR	NT	
Microcut 26	Mixture	E	E	E	E	NT	
Mineral Oil - Light	8012-95-1	E	E	E	E	NT	
Mineral Spirits	64475-85-0	E	E	E	E	NT	
Monobutylamine	109-73-9	F	NR	NR	NR	NT	
Monochlorobenzene	108-90-7	E	P	NR	NR	NT	
Monoethanolamine (MEA)   100%	141-43-5	E	E	E	E	NT	
Monoethylene Glycol	107-21-1	E	E	E	E	NT	
Monomethyl Ether Propanol	107-98-2	E	E	E	G	NT	
Morpholine	110-91-8	E	P	NR	NR	NT	
MPK	107-87-9	F	NR	NR	NR	NT	
M-Pyrol	872-50-4	E	E	E	E	NT	
MtBE	1634-04-4	E	E	E	E	NT	
Muriatic Acid	7647-01-1	E	E	E	E	NT	
NaOH	1310-73-2	E	E	E	E	NT	
Naphtha	8032-32-4	E	E	E	E	NT	
Nitric Acid	7697-37-2	E	E	E	E	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Nitric Acid   70%	7697-37-2	E	P	NR	NR	NT	
Nitric Acid   23%	7697-37-2	E	E	E	E	NT	
Nitric/Hydrofluoric Pickle Solution	97697-37-4	E	E	G	G	NT	
Nitrobenzene	98-95-3	E	P	NR	NR	NT	
Nitrohydrochloric Acid	8007-56-5	E	E	E	E	NT	
Nitromethane	75-52-5	G	P	NR	NR	NT	
N-Methyl-2-Pyrrolidone	872-50-4	E	E	E	E	NT	
NMP	872-50-4	E	E	E	E	NT	
n-Propyl Cellosolve	2807-30-9	E	E	E	F	NT	
Nycote 7-11	Mixture	E	G	F	P	NT	
Octanol n-	111-87-5	E	E	E	E	NT	
Octanol n-   100%	111-87-5	E	E	E	E	NT	
Octyl Alcohol	111-87-5	E	E	E	E	NT	
Oleic Acid	112-80-1	E	E	E	E	NT	
Oleic Acid   98%	112-80-1	E	E	E	E	NT	
Olive Oil	8001-25-0	E	E	E	E	NT	
OLIVE OIL	8001-25-0	E	E	E	E	NT	
Ortho Dichlorobenzene	95-50-1	E	P	NR	NR	NT	
Oxirane	75-21-8	E	E	E	E	NT	
Oxybisbenzene, 1,1'-   73%	101-84-8	E	E	E	F	NT	
Oxybisbenzene,1,1-   73%	101-84-8	E	E	E	F	NT	
Oxybisethanol, 2,2'-   99%	111-46-6	E	E	E	E	NT	
Parafin Oil	8012-95-1	E	E	E	E	NT	
PCBs (Aroclor 1254)	11097-69-1	E	E	E	G	NT	
PCBs 50% (Aroclor 1254)	11097-69-1	E	E	E	G	NT	
Pentachlorophenol (5% in Kerosene)   5%	87-86-5	E	E	E	E	NT	
Pentachlorophenol (5% in Kerosene)   5%	87-86-5	E	E	E	E	NT	
Pentane	109-66-0	E	E	E	E	NT	
Pentane, 2,2,4-Trimethyl	540-84-1	E	E	E	E	NT	
Pentanedial, 1,5-   50%	111-30-8	E	E	E	E	NT	
Pentanol	71-41-0	E	E	E	E	NT	
Pentanone, 2-   100%	107-87-9	F	NR	NR	NR	NT	
Pentyl Acetate	628-63-7	E	E	F	P	NT	
Pentyl Alcohol	71-41-0	E	E	E	E	NT	
PERC   100%	127-18-4	E	E	E	G	NT	
Perchlorethylene   100%	127-18-4	E	E	E	G	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Petrol	8006-61-9	E	E	E	E	NT	
Petroleum Ether	8032-32-4	E	E	E	E	NT	
Phenol	108-95-2	F	NR	NR	NR	NT	
Phenyl Alcohol	108-95-2	F	NR	NR	NR	NT	
Phenyl Ethane	100-41-4	E	G	G	NR	NT	
Phenyl Hydride	71-43-2	E	G	P	P	NT	
Phenyl Methane	108-88-3	E	F	P	NR	NT	
Phenylethanone, 1-	67-64-1	F	NR	NR	NR	NT	
Phenylethylene	100-42-5	G	P	NR	NR	NT	
Phenylpropane, 2-	98-82-8	G	F	NR	NR	NT	
Phosphonomethylglycine	1071-83-6	E	E	E	E	NT	
Phosphoric Acid	7664-38-2	E	E	E	E	NT	
Phthalic Acid Dibutyl Ester	84-74-2	E	E	E	E	NT	
Pine Oil	8006-64-2	E	E	E	E	NT	
Polychlorinated Biphenyls	11097-69-1	E	E	E	G	NT	
Potassium Hydroxide	1310-58-3	E	E	E	E	NT	
Propaneamide, 2-   50%	79-06-1	E	E	E	E	NT	
Propaneamide, N, N'-Dimethyl	109-55-7	NT	NT	NT	NT	NT	
Propanediol, 1,2-	57-55-6	E	E	E	E	NT	
Propanol N-	71-23-8	E	E	E	E	NT	
Propanol, 2-	67-63-0	E	E	E	E	NT	
Propanone, 2-	67-64-1	F	NR	NR	NR	NT	
Propenenitrile, 2-	107-13-1	F	NR	NR	NR	NT	
Propenol   99%	107-18-6	E	G	F	F	NT	
Propenyl Alcohol   99%	107-18-6	E	G	F	F	NT	
Propoxypropanol	1569-01-3	E	E	E	E	NT	
Propyl Acetate	109-60-4	E	F	P	NR	NT	
Propyl Acetate, 2-   98%	108-21-4	E	E	G	P	NT	
Propyl Alcohol	71-23-8	E	E	E	E	NT	
Propyl Carbinol	71-36-3	E	E	E	E	NT	
Propyl Cellosolve n-	2807-30-9	E	E	E	F	NT	
Propyl Ethanoate	109-60-4	E	F	P	NR	NT	
Propyl glycol	2807-30-9	E	E	E	F	NT	
Propyl Propasol Solvent	1569-01-3	E	E	E	E	NT	
Propylene Glycol	57-55-6	E	E	E	E	NT	
Propylene Glycol Monobutyl Ether	5131-66-8	E	E	E	E	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Propylene Glycol Monomethyl Ether	107-98-2	E	E	E	G	NT	
Propylene Glycol Monopropyl Ether	1569-01-3	E	E	E	E	NT	
Propylene Oxide	75-56-9	NR	NR	NR	NR	NT	
Pseudocumene   98%	95-63-6	E	E	E	E	NT	
P-Tert Butyl Toluene	98-51-1	E	E	E	E	NT	
Pyridine	7291-22-7	P	NR	NR	NR	NT	
Pyrrolidinone, 1-Ethenyl 2-	88-12-0	NR	NR	NR	NR	NT	
Refrigerant 123A	306-83-2	F	NR	NR	NR	NT	
Refrigerant 141B	1717-00-6	E	E	G	P	NT	
Rotella T Multigrade 15W40 Motor Oil	71630-00-0	E	E	E	E	NT	
Round-Up (Concentrated)	1071-83-6	E	E	E	E	NT	
Shell Aeroshell Grease 22	56280-00-0	E	E	E	E	NT	
Shell Alvania Grease 3	57120-00-0	E	E	E	E	NT	
Shell Diala Oil AX Base Oil	60030-00-0	E	E	E	E	NT	
Shell Fire & Ice 2000 10W Oil	60015-00-0	E	E	E	E	NT	
Shell HVI 100 Neutral MQ Base Oil	63050-00-0	E	E	E	E	NT	
Shell Rotella T Multigrade 15W40 Motor Oil	71630-00-0	E	E	E	E	NT	
Shell Spirax S 85W-140	86404-00-0	E	E	E	E	NT	
Shell Turbo T 68 Hydraulic Oil	60220-00-0	E	E	E	E	NT	
Shellwax 100	Mixture	E	E	E	E	NT	
Skydrol 500 B-4	126-73-8	E	E	G	P	NT	
Skydrol 500 B-4   100%	126-73-8	E	E	G	P	NT	
Skydrol LD-4 Hydraulic Fluid	2528-36-1	E	E	G	F	NT	
Sodium Hydroxide	1310-73-2	E	E	E	E	NT	
Sodium Hypochlorite	7681-52-9	E	E	E	E	NT	
Spirax S 85W-140	86404-00-0	E	E	E	E	NT	
Stoddard Solvent	8052-41-3	E	E	E	E	NT	
Styrene	100-42-5	G	P	NR	NR	NT	
Sulfoxide, Dimethyl	67-68-5	E	G	G	P	NT	
Sulfuric Acid	7664-93-9	E	E	E	E	NT	
SULFURIC ACID	7664-93-9	E	G	F	NR	NT	
Sulfuric Acid   97%	7664-93-9	E	G	F	NR	NT	
Tannic Acid	1401-55-4	E	E	E	E	NT	
Tannin	1401-55-4	E	E	E	E	NT	
TDI	584-84-9	E	E	G	P	NT	
Tetrachloroethylene   100%	127-18-4	E	E	E	G	NT	



CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Tetrachloromethane	56-23-5	E	E	E	E	NT	
Tetrafluoroboric acid	16872-11-0	E	E	E	E	NT	
Tetrahydrofuran	109-99-9	E	NR	NR	NR	NT	
THF	109-99-9	E	NR	NR	NR	NT	
Toluene	108-88-3	E	F	P	NR	NT	
Toluene/MEK (65:3 ratio)	90108-88-5	G	NR	NR	NR	NT	
Toluene-2,4-Diisocyanate	584-84-9	E	E	G	P	NT	
Toluidine, O-	95-53-4	E	P	NR	NR	NT	
Toluol	108-88-3	E	F	P	NR	NT	
Toluene Diisocyanate	584-84-9	E	E	G	P	NT	
Tribromide, Methyl	75-25-2	G	NR	NR	NR	NT	
Tribromomethane	75-25-2	G	NR	NR	NR	NT	
Trichlorobenzene, 1,2,4-   100%	120-82-1	E	E	G	NR	NT	
Trichloroethane, 1,1,1-	71-55-6	E	E	G	NR	NT	
Trichloroethylene (TCE)	79-01-6	G	NR	NR	NR	NT	
Trichlorofluoroethane	76-13-1	E	E	E	E	NT	
Trichloromethane	67-66-3	NR	NR	NR	NR	NT	
Tricresyl Phosphate	1330-78-5	E	E	E	E	NT	
Triethanolamine	102-71-6	E	E	E	E	NT	
Triethyl Phosphate	78-40-0	NT	NT	NT	NT	NT	
Triethylene Glycol Monobutyl Ether	143-22-6	E	E	G	G	NT	
Triethylene Glycol Monoethyl Ether	112-35-6	E	E	E	G	NT	
Trimethyl Benzene, 1,2,4-   98%	95-63-6	E	E	E	E	NT	
Trimethyl Pentane, 2,2,4-	540-84-1	E	E	E	E	NT	
Tris(2-hydroxyethyl)amine	102-71-6	E	E	E	E	NT	
Tritolyl Phosphate	1330-78-5	E	E	E	E	NT	
Turco 5351	90075-09-4	NR	NR	NR	NR	NT	
Turco 5351 Mixture	90075-09-4	NR	NR	NR	NR	NT	
Turco 6709	90107-98-4	E	E	E	G	NT	
TURCO 6709	90107-98-4	E	E	E	G	NT	
Turpentine	8006-64-2	E	E	E	E	NT	
UCON Quenchant A-RO	Mixture	E	E	E	E	NT	
Urethane Catalyst Alkanol	Mixture	NT	NT	NT	NT	NT	
VEGETABLE OIL	8001-30-7	E	E	E	E	NT	
Vinyl Acetate	108-05-4	F	P	P	P	NT	
Vinyl Benzene	100-42-5	G	P	NR	NR	NT	

CHEMICAL NAME	CASNUMBER	DEGRADATION RATING				BDT	
		5m	30m	60m	240m	TTL	INT
Vinyl Carbinol   99%	107-18-6	E	G	F	F	NT	
Vinyl Chloride (Gas)	75-01-4	E	E	E	E	NT	
Vinyl Pyrrolidinone	88-12-0	NR	NR	NR	NR	NT	
Vinyl Styrene	1321-74-0	E	E	G	NR	NT	
Vinylbutyrolactam	88-12-0	NR	NR	NR	NR	NT	
Vinylcyanide (VCN)	107-13-1	F	NR	NR	NR	NT	
Vinylidene Chloride	75-35-4	G	NR	NR	NR	NT	
V-Pyrol	88-12-0	NR	NR	NR	NR	NT	
WMD Stimulant Dichloropentane	628-76-2	NT	NT	NT	NT	NT	
WMD Stimulant Dimethyl Methyl Phosphonate	756-79-6	NT	NT	NT	NT	NT	
WMD Stimulant Triethyl Phosphate	78-40-0	NT	NT	NT	NT	NT	
Xylene	1330-20-7	E	G	F	NR	NT	

DEG = Degradation; BDT= Breakthrough Detection Time; TTL= Total Immersion; INT= Intermittent Exposure; E = EXCELLENT; G=GOOD; F = FAIR; P = POOR; NR = NOT RECOMMENDED; NT = Not Tested

Chemical permeation testing performed according to American Society of Testing and Materials (ASTM) F739 total immersion and ASTM F1383 intermittent contact methods. Degradation is measured by gravimetric change at 5, 30, 60 and 240 minutes.

## CE

### DIRECTIVE 89/686/EEC (PERSONAL PROTECTIVE EQUIPMENT)

CATEGORY I – MINOR RISKS

CATEGORY II – REVERSIBLE RISKS (INJURY)

CATEGORY III – IRREVERSIBLE RISKS (CORROSION), CERTIFIED COMPLIANT AND TESTED BY A NOTIFIED BODY WHOSE NUMBER IS SPECIFIED

## EN 388: 2003

### MECHANICAL RISKS

Used in the European Community. A series of tests to measure mechanical performance. Measures Abrasion, Cut, Tear, and Puncture. Remember ACTP! Tested and specified levels of resistance to the following risks:

**ABRASION (0 TO 4):** Number of cycles required to abrade through the glove at a constant speed.

**CUT (0 TO 5):** Index calculated based on the number of cycles required to cut through the glove at a constant speed.

**TEAR (0 TO 4):** Force required to tear the glove.

**PUNCTURE (0 TO 4):** Force required to puncture the sample with a standard steel punch.

## EN 374-1: 2003

### CHEMICAL RISKS

The level (0 to 6) indicates the time required for different chemicals to permeate through the glove.

Permeation performance index =  
Measured breakthrough time

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



IF THE PRODUCT DISPLAYS THE FIRST SYMBOL, IT HAS ACHIEVED A PERFORMANCE INDEX AT LEAST EQUAL TO 2 FOR THREE OF THE CHEMICALS LISTED BELOW:

Letter Code	Chemical	CAS Number	Class
A	Methanol	67-56-1	Primary Alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbon disulphide	75-15-0	Organic compound containing sulphur
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofuran	109-99-9	Heterocyclic ether
I	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-85-5	Saturated hydrocarbon
K	Caustic soda 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid



IF THE GLOVE SHOWS THE SECOND SYMBOL, IT HAS NOT MET THE CONDITIONS, IT OFFERS BASIC PROTECTION GLOVES RESISTANT TO PENETRATION AT A BASIC LEVEL.

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### PROTECTION AGAINST MICROORGANISMS

The glove is considered to be resistant to microorganisms if it has successfully undergone the penetration test (air and/or water leak test) and if it meets at least level 2 of the penetration test.

### Warranty Limitations and Disclaimer Use

This information is provided solely as a convenience to help you evaluate our gloves in the end-user's particular application. It is the responsibility of the purchaser and/or user to determine the level of toxicity of the materials to be handled and to select the proper glove suitable for a particular application. The information provided reflects laboratory performance of gloves under carefully controlled conditions. SHOWA makes no guarantee of results and assumes no obligation or liability in connection with this information.