RELIABILITY CENTERED MAINTENANCE ENGINEERING

MTG Official Partner

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
ACETAL	3	3	3	3	3	3	?	1	3	?
ACETIC ACID (ICE)	3	2	3	2	3	1	?	1	2	1
ACETIC ACID 20%	2	1	3	1	3	1	1	1	1	1
ACETIC ACID 30%	2	1	3	1	3	1	1	1	3	1
ACETIC ACID 50%	2	1	3	1	3	1	1	1	3	1
ACETIC ACID 99%	3	1	3	2	3	1	1	1	3	1
ACETIC ACID ANHYDRIDE	3	2	3	3	3	1	3	1	3	2
ACETONE	1	1	3	3	1	1	3	1	1	3
ACETONITRILE	3	3	3	3	3	1	?	1	1	1
ACETOPHENONE	3	3	3	3	3	3	?	1	3	?
ACETYLENE	3	3	2	2	1	1	1	1	0	1
ACRYL ARYL SULPHONATE SLURRY	1	1	3	2	0	0	?	0	0	?
ACRYLATE (MONOMER)	3	3	3	3	0	0	?	0	0	?
ACRYLATE (POLYMER)	3	1	3	?	0	0	?	0	0	?
ACRYLIC ACID (323 K)	3	3	3	3	0	0	?	0	0	?
ACRYLIC MONOMER	3	3	3	3	0	0	?	0	0	?
ACRYLONITRILE	3	3	3	3	1	1	?	1	1	?
AIR	1	1	1	1	1	1	1	1	1	1
ALCOHOL (ETHYL)	1	1	1	1	1	0	?	0	1	1
ALKYLARYL BENZENE SULPHONATE	3	1	1	3	0	0	?	0	0	?
ALLYLALCOHOL	1	1	2	2	0	1	3	1	1	1
ALLYLCHLORIDE	3	3	3	3	0	1	?	1	1	1
ALUM	1	1	1	1	3	3	1	1	1	1
ALUMINIUM CHLORIDE	1	1	1	1	3	3	1	1	1	1
ALUMINIUM FLUORIDE	1	1	1	1	3	3	1	1	1	1
ALUMINIUM HYDROXIDE	1	1	1	1	3	3	1	1	1	1
ALUMINIUM SILICATE	1	1	1	1	0	0	?	0	0	?
ALUMINIUM SULPHATE	1	1	1	1	0	0	1	1	1	1
AMMONIA (AQUEOUS)	1	1	1	1	0	1	?	1	0	?
AMMONIA (GAS)	1	1	1	1	0	1	1	1	1	1
AMMONIA ANHYDRIC	1	1	2	1	1	1	1	1	1	1
AMMONIUM BICARBONATE	1	1	1	1	0	0	?	1	0	?
AMMONIUM BISULPHATE 50%	1	1	3	1	0	0	?	1	0	?
AMMONIUM BROMIDE	2	1	3	1	0	0	?	1	0	?
AMMONIUM CARBONATE	1	1	1	1	3	3	1	1	1	1
AMMONIUM CHLORIDE	1	1	1	1	3	3	1	1	1	1
AMMONIUM FORMATE	1	1	1	1	0	0	?	0	0	?
AMMONIUM HYDROXIDE	1	1	1	1	0	0	?	1	1	1
AMMONIUM METAPHOSPHATE	1	1	1	1	0	1	?	1	1	1
AMMONIUM NITRATE	1	1	1	1	1	1	2	1	1	1
AMMONIUM NITRITE	1	1	1	1	0	0	?	1	1	1
AMMONIUM PERSULPHATE	2	1	2	1	3	3	1	1	1	?
AMMONIUM PHOSPHATE	1	1	1	1	3	3	1	1	1	?
AMMONIUM PROPIONATE	1	1	3	2	0	0	?	0	0	?
AMMONIUM SULPHATE	1	1	1	1	3	3	1	1	1	1
AMMONIUM THIOCYANATE	1	1	1	1	0	0	?	1	0	?

RCME
RELIABILITY CENTERED MAINTENANCE ENGINEERING

MTG Official Partner

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
AMYL ACETATE	2	2	2	3	0	1	3	0	1	1
AMYL ALCOHOL	2	2	2	2	1	1	?	1	1	1
AMYL AMINE	3	3	3	3	0	0	?	1	0	?
AMYL BORATE	2	2	3	3	0	0	?	1	0	?
AMYL BROMIDE	2	2	3	3	0	0	?	1	0	?
AMYL CHLORIDE	3	3	3	3	0	1	3	1	3	1
AMYL CHLORONAPHTHALENE	3	3	3	3	0	0	?	1	0	?
AMYL ETHER	3	3	3	3	0	0	?	1	0	?
AMYL IODIDE	3	3	3	3	0	0	?	1	0	?
AMYL NAPHTALENE	3	3	3	3	0	0	?	1	0	?
AMYL PHENOL	3	3	3	3	0	1	?	1	0	?
AMYLENE	3	3	3	3	0	0	3	1	0	?
ANILINE	3	3	3	3	0	1	3	1	2	1
ANILINE PAINT	2	3	3	3	0	1	3	1	1	?
ANIMAL FAT	3	3	2	3	0	1	?	1	0	1
ANIMAL GLUE	1	1	1	1	0	0	?	1	0	?
ANTHRAQUINONE (55 °C)	1	1	2	1	0	0	?	0	0	?
ANTI-FREEZE	1	1	1	1	1	1	?	1	0	?
ANTIMONY CHLORIDE 50%	2	1	3	1	3	3	1	1	1	?
AQUA REGIA	3	2	3	2	3	3	2	1	2	3
ARSENIC ACID	3	2	3	2	3	3	1	1	1	?
ARSENIC TRIOXIDE	1	1	1	1	0	0	?	0	0	?
ASCORBIC ACID	1	1	1	1	0	1	?	1	0	?
ASPHALT	3	3	2	3	1	1	?	1	1	1
ASTOR OIL 1-2-3	3	3	3	3	1	1	?	1	0	?
AVIATION GASOLINE	3	3	2	3	1	1	?	1	0	?
BARIUM CARBONATE	1	1	1	1	1	1	1	1	1	1
BARIUM CHLORIDE	1	1	1	1	3	3	1	1	1	?
BARIUM FERRITE	1	1	1	1	0	0	?	0	0	?
BARIUM HYDROXIDE	1	1	1	1	1	0	1	1	1	1
BARIUM SULPHATE	1	1	1	1	3	3	1	1	1	1
BARIUM SULPHIDE	1	1	1	1	3	3	1	1	1	1
BEER	1	1	1	1	0	1	1	1	1	1
BEET ROOT SYRUP	1	1	1	1	0	1	?	1	1	1
BENZALDEHYDE	3	2	3	2	3	3	3	0	1	2
BENZENE (BENZOL)	3	3	3	3	3	3	3	1	2	2
BENZENESULPHONIC ACID	3	3	3	3	0	1	?	1	3	1
BENZOYL CHLORIDE	3	3	3	3	3	3	?	1	2	1
BENZYLALCOHOL	3	3	3	3	1	1	?	1	1	1
BENZYLBENZOATE	3	3	3	3	1	1	?	1	0	?
BICALCIUM PHOSPHATE	1	1	0	1	0	0	?	0	0	?
BIRD LIME (GLUE)	1	1	1	1	1	1	?	1	0	?
BISMUTH CARBONATE	1	1	1	1	1	1	1	1	1	?
BLACK SULPHATE LIQUOR	1	1	1	1	0	1	?	1	0	?
BLAST FURNACE GAS	3	3	1	3	0	0	?	1	0	?
BOR(AC)IC ACID	1	1	1	1	0	0	?	1	1	1

RCME
RELIABILITY CENTERED MAINTENANCE ENGINEERING

MTG Official Partner

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
BORAX	1	1	1	1	1	1	1	1	1	1
BROMINE	3	3	3	3	3	3	3	0	3	?
BUTADIENE	3	3	2	3	1	1	?	1	3	1
BUTANE	3	3	3	3	1	1	?	1	3	1
BUTANE FLUID	3	3	2	3	0	0	?	1	0	?
BUTTER	3	3	1	3	0	1	?	1	0	?
BUTTER ACID	2	3	2	3	0	0	?	1	0	?
BUTYL ACETATE	3	2	3	2	1	1	3	1	2	1
BUTYL ALCOHOL	2	1	2	1	1	1	1	1	1	1
BUTYL ALDEHYDE	3	3	3	3	0	0	?	1	0	?
BUTYL CELLOSOLVE (=2-butoxyethanol)	3	3	3	3	1	1	?	1	0	1
BUTYL CELLOSOLVE ADIPATE	3	3	3	3	0	0	?	1	0	?
BUTYL ETHER	3	3	3	3	1	1	?	1	3	1
BUTYL GLYCOL	1	1	1	1	0	0	1	1	0	?
BUTYL IODIDE	3	3	3	3	0	0	?	1	0	?
BUTYL STEARATE	3	3	2	3	0	1	?	1	0	1
BUTYRONITRILE	3	3	3	3	0	0	?	1	0	?
CALCIUM ACETATE	1	1	1	1	0	1	?	1	1	?
CALCIUM BISULPHATE	1	1	1	1	0	1	?	0	1	?
CALCIUM BISULPHITE	1	1	1	1	0	0	?	1	1	1
CALCIUM BROMIDE	3	1	3	?	0	0	?	0	0	?
CALCIUM CARBONATE	1	1	1	1	3	3	1	1	1	1
CALCIUM CHLORATE	1	1	2	1	3	3	1	1	1	?
CALCIUM CHLORIDE	1	1	1	1	0	0	1	1	1	?
CALCIUM FLUORIDE	1	1	1	1	0	0	?	0	0	?
CALCIUM HYDROXIDE	1	1	1	1	3	3	1	1	1	?
CALCIUM HYPOCHLORITE	3	1	3	1	0	0	?	0	0	?
CALCIUM HYPOCHLORITE 30%	2	1	2	1	0	0	?	1	1	1
CALCIUM NITRATE	1	1	1	1	3	3	1	1	1	?
CALCIUM STEARATE	2	3	2	3	0	0	?	0	0	?
CALCIUM SULPHATE	1	1	1	1	3	3	1	1	1	1
CALCIUM SULPHIDE	1	1	1	1	1	1	?	1	1	1
CALCIUM TETRAFLUORIDE	3	2	3	1	0	1	1	1	1	?
CALIC LIQUOR	1	1	1	1	0	0	?	1	0	?
CANE SUGAR LIQUOR	1	1	1	1	1	1	?	1	1	1
CARBIDE LIME / CARBIDE SLUDGE	1	1	1	1	0	0	?	0	0	?
CARBITOL	3	3	3	3	0	1	?	1	0	?
CARBOLIC ACID (= phenol)	3	3	3	3	0	1	?	1	2	1
CARBON DIOXIDE (DRY)	1	1	1	1	1	1	1	1	1	1
CARBON DIOXIDE (MOIST)	1	1	1	1	1	1	1	1	1	1
CARBON DISULPHIDE	3	3	1	3	1	1	3	1	3	1
CARBON MONOXIDE (338 K)	1	1	2	1	1	1	?	1	1	1
CARBON TETRACHLORIDE	3	3	3	3	0	0	3	1	0	?
CARBONIC ACID	1	1	1	1	0	3	3	1	1	1
CARBOXYMETHYL CELLULOSE 12%	1	1	1	1	0	0	?	0	0	?
CASTOR OIL	3	3	2	3	0	1	1	1	1	1

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
CAUSTIC SODA (max. 50%)	2	1	2	1	0	2	1	0	1	1
CELLOSOLVE	3	3	3	3	0	1	?	1	1	1
CELLOSOLVE ACETATE	3	3	3	3	1	1	?	1	0	?
CELLULOSE ACETATE	0	3	2	3	0	1	?	1	0	?
CHINA WOOD OIL (TUNG OIL)	3	3	3	3	1	1	?	1	0	?
CHLORIC ACID	3	1	3	1	3	3	1	0	0	?
CHLORIC ACID SULPHUROUS	3	2	3	1	0	0	3	1	0	?
CHLORINATED SOLVENTS	3	3	3	3	0	0	?	0	0	?
CHLORINE (DRY)	3	2	3	3	3	3	1	1	3	1
CHLORINE (MOIST)	3	1	3	1	0	1	?	1	3	1
CHLORINE AQUEOUS SOLUTION 3%	3	1	3	1	0	1	?	1	1	1
CHLORINE LYE	3	1	3	1	0	0	?	1	0	?
CHLOROACETONE	3	2	2	3	0	0	?	1	0	?
CHLOROACETONITRILE	3	3	3	3	0	0	?	1	0	?
CHLOROBENZENE	3	3	3	3	1	1	3	1	0	?
CHLOROBROMOMETHANE	3	3	3	3	0	1	3	1	0	?
CHLOROETHYL ACETATE	3	3	3	3	0	0	?	1	0	?
CHLOROFORM	3	3	3	3	1	1	3	1	2	1
CHLOROMETHYL	3	3	3	3	0	0	?	1	0	?
CHLORONAPHTALENE	3	3	3	3	1	1	3	1	0	?
CHLORONITROETHANE	3	3	3	3	0	0	?	1	0	?
CHLOROSULPHONIC ACID	3	3	3	3	0	0	?	1	0	?
CHLOROTOLUENE	3	3	3	3	1	1	?	1	0	?
CHROMIC ACID 10%	3	3	3	1	3	3	1	1	3	1
CHROMIC ACID 25%	3	3	3	1	3	3	1	1	3	1
CHROMIC ACID 50%	3	3	3	1	3	3	2	1	3	1
CHROMIUM HYDROXIDE	3	1	3	1	0	0	?	0	0	?
CHROMIUM SULPHATE	3	1	3	?	0	0	?	0	0	?
CITRIC ACID	1	1	2	1	0	0	1	1	1	?
CITRUS PULP	1	1	2	1	0	0	?	0	0	?
COCONUT OIL	3	3	2	3	1	1	1	1	1	1
COD LIVER OIL	3	3	2	3	0	1	?	1	0	?
COKES OVEN GAS	3	3	2	3	1	0	?	1	0	1
COMPRESSOR OIL	3	3	1	2	0	0	?	1	0	?
COPPER ARSENATE	2	1	2	1	1	1	?	1	0	?
COPPER CYANIDE	2	1	1	1	0	0	1	0	1	1
COPPER NITRATE	1	1	2	1	0	0	1	1	1	?
COPPER OXYCHLORIDE	2	1	2	1	0	0	?	0	0	?
COPPER SULPHATE	1	1	2	1	0	0	1	1	1	?
COPPER(I) CHLORIDE	1	1	1	1	3	3	1	1	1	1
COPPER(II) CHLORIDE	1	1	1	1	3	3	1	1	1	1
COTTONSEED OIL	3	3	2	3	0	1	1	1	1	1
CREOSOTE COAL TAR	3	3	3	3	0	1	?	1	3	?
CREOSOTE OIL	3	3	3	3	3	3	3	1	2	?
CREOSOTE WOOD	3	3	3	3	1	1	?	1	3	?
CRESOL 90%, XYLOL 5%, DDT 5%	3	3	3	3	1	1	3	0	3	1

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
CRESOL 95%, XYLOL 5%	3	3	3	3	1	1	3	0	3	1
CRESYLIC ACID (= cresol)	3	3	3	3	0	1	?	1	3	1
CRUDE OIL	3	3	2	2	1	1	1	1	1	1
CRYOLITE 10%	2	2	2	1	0	1	?	1	0	?
CYANIDE	1	1	1	1	0	0	?	0	1	?
CYCLOHEXANE	3	3	2	3	1	1	?	1	3	1
CYCLOHEXANOL	3	3	3	3	3	3	3	1	1	1
CYCLOHEXANONE	3	3	3	3	0	1	3	1	2	?
CYCLOPENTANE	3	3	3	3	0	1	?	1	0	?
DDT2 KEROSEN	3	3	2	3	0	1	1	1	0	?
DECAHYDRONAPHTENE (= decaline)	3	3	3	3	0	0	?	1	0	?
DECALIN	3	3	3	3	0	0	?	1	3	?
DECANE	3	3	3	3	0	0	?	1	1	1
DIACETONE ALCOHOL	3	3	3	3	1	1	?	1	0	?
DIAMYL NAPHTENE	3	3	3	3	0	0	?	1	0	?
DIAMYL PHTALATE	3	3	3	3	0	0	?	1	0	?
DIBENZYL ETHER	3	3	3	3	1	1	?	1	0	?
DIBUTYL AMINE	3	3	3	3	0	0	?	1	0	?
DIBUTYL ETHER	3	3	3	?	1	1	?	1	0	?
DIBUTYL PHTALATE	3	3	3	3	1	1	?	1	0	?
DIBUTYL SEBACATE	3	3	3	3	0	0	?	1	0	?
DICHLORINE ACID	3	3	3	3	0	0	?	1	0	?
DICHLOROBENZENE	3	3	3	3	0	1	?	1	0	?
DICHLOROBUTENE	3	3	3	3	0	0	?	1	0	?
DICHLORODIFLUOROMETHANE	3	3	3	3	0	1	?	1	1	?
DICHLOROMETHANE	3	3	3	3	0	0	?	0	0	?
DICHLOROPHENOXY ACETIC ACID	3	3	3	3	0	0	?	0	0	?
DICHLOROPROPENE	3	3	3	3	0	0	3	1	0	?
DICHLOROTETRAFLUOROETHANE	3	3	3	3	0	1	?	1	1	?
DICYCLOHEXYLAMINE	3	3	3	3	0	0	?	1	0	?
DI-DOWTHERM (A+E)	3	3	3	3	1	1	?	1	0	?
DIESEL OIL	3	3	3	3	1	1	?	1	2	1
DIETHYL AMINE	3	3	3	3	0	1	?	1	0	?
DIETHYL CARBONATE	3	3	3	3	0	0	?	1	0	?
DIETHYL ETHER	3	3	3	3	1	1	?	1	0	?
DIETHYL FATTY ACID	3	3	3	3	0	0	?	1	0	?
DIETHYL GLYCOL	1	1	1	1	1	1	1	1	1	?
DIETHYL KETONE	2	2	3	3	0	0	?	1	0	?
DIETHYL OXALATE	3	3	3	3	0	0	?	1	0	?
DIETHYL PHTALATE	3	3	3	3	0	1	?	1	0	?
DIETHYL SEBACATE	3	3	3	3	0	1	?	1	0	?
DIISOBUTENE	3	3	0	3	0	1	?	1	0	?
DIISOBUTYL KETONE	3	3	3	3	0	1	?	1	0	?
DIISOPROPYL ETHER	3	3	3	3	0	0	?	1	0	?
DIISOPROPYL KETONE	3	3	3	3	0	1	?	1	0	?
DIMETHYL AMINE	3	3	3	3	0	0	?	0	0	?

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
DIMETHYL ANILINE	3	3	3	3	0	0	?	1	0	?
DIMETHYL ETHER	3	3	3	3	1	1	?	1	0	?
DIMETHYL FORMAMIDE	1	1	2	3	1	1	?	1	0	?
DIMETHYL PHOSPHITE	2	2	3	3	0	0	?	1	0	?
DIMETHYL PHTALATE	3	3	3	3	0	0	?	1	0	?
DIMETHYL SULPHIDE	3	3	3	3	0	0	?	1	0	?
DIOCTYL ADIPATE	3	3	3	3	0	0	?	1	0	?
DIOCTYL PHTALATE (DOP)	3	3	3	3	0	0	3	1	0	?
DIOCTYL SEBACATE	3	3	3	3	0	0	?	1	0	?
DIOXANE	3	3	3	3	1	1	?	1	0	?
DIVINYLBENZENE	3	3	3	3	0	0	?	1	0	?
DODECYLBENZENE	3	3	3	3	0	1	?	1	3	3
DODECYLTOLUENE	3	3	3	3	0	0	?	1	0	?
EPICHLOROHYDRINE	3	3	3	3	1	1	?	1	1	3
ETHANOLAMINE	3	3	3	3	1	1	?	1	3	2
ETHER	3	3	3	3	3	3	1	1	0	?
ETHYL ACETATE	2	2	3	3	3	3	3	1	1	1
ETHYL ALCOHOL	1	1	1	2	1	1	1	1	2	1
ETHYL AMINE	3	3	3	3	0	1	?	1	3	3
ETHYL BENZENE	3	3	3	3	1	1	?	1	3	1
ETHYL BENZOATE	3	3	3	3	0	1	?	1	1	?
ETHYL BROMIDE	3	3	3	3	0	1	?	1	0	?
ETHYL BUTYRATE	3	3	3	3	0	1	?	1	1	?
ETHYL CELLULOSE	1	1	2	2	1	1	?	1	2	?
ETHYL CHLORIDE	3	3	3	3	1	1	3	1	1	1
ETHYL CHLOROFORMATE	3	3	3	3	0	0	?	0	0	?
ETHYL CYANOACETATE	3	3	3	3	0	0	?	1	0	?
ETHYL DICHLORIDE	3	3	3	3	0	0	?	1	0	?
ETHYL ETHER	3	3	3	3	0	1	3	1	2	1
ETHYL FORMATE	3	2	3	3	0	1	?	1	0	?
ETHYL HEXANOL	3	3	3	3	0	0	?	1	0	?
ETHYL IODIDE	3	3	3	3	0	0	?	1	0	?
ETHYL ISOBUTYLETHER	3	3	3	3	0	0	?	1	0	?
ETHYL ISOBUTYRATE	3	3	3	3	0	0	?	1	0	?
ETHYL MERCAPTAN	3	3	3	3	0	0	?	1	0	?
ETHYL OXALATE	0	3	3	3	0	0	?	1	0	?
ETHYL PENTACHLOROBENZENE	3	3	3	3	0	0	?	1	0	?
ETHYL PROPIONATE	3	3	3	3	0	0	?	1	0	?
ETHYL PROPYLETHER	3	3	3	3	0	0	?	1	0	?
ETHYL SILICATE	1	1	1	1	1	1	?	1	0	?
ETHYLAMYL KETONE	3	3	3	3	0	0	?	1	0	?
ETHYLENE DIAMINE	3	3	3	3	0	0	?	1	0	?
ETHYLENE GLYCOL	1	1	1	1	1	1	1	1	1	?
ETHYLENE OXYDE	3	3	3	3	0	1	3	1	0	1
ETHYLHEXYL DIPHENYL PHOSPHATE	3	3	3	3	0	0	?	1	0	?
ETHYLMETHYL KETONE	2	2	3	3	0	0	?	1	0	?

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
FAECES	1	1	1	1	0	0	?	1	0	?
FERRIC OXIDE	1	1	1	1	0	0	?	0	0	?
FERRIFEROUS CHLORIDE (338 K)	1	1	1	1	0	1	1	1	0	?
FERRO HYDROXIDE	3	1	3	1	0	0	?	0	0	?
FERROUS SULPHATE	1	1	1	1	0	1	1	1	1	?
FLEXOL 300 (dioctyl phtalate - DOP)	3	3	3	3	0	0	?	1	0	?
FLUOBORIC	1	1	2	1	0	1	?	1	1	?
FLUOBORIC ACID 65%	3	3	3	1	0	1	1	1	0	?
FLUORIC ACID	3	2	3	1	3	3	1	1	1	1
FLUOROBENZENE	3	3	3	3	0	0	?	1	0	?
FLUOROSILICIC ACID	3	3	3	1	0	0	?	1	0	?
FLUOROSILICIC ACID 50%	3	3	3	1	0	0	1	1	0	?
FORMALDEHYDE 37%	1	1	2	2	0	1	1	1	1	1
FORMALDEHYDE 40% (343 K)	3	1	3	3	0	1	?	1	1	1
FORMAMIDE (FORMYLAMINE)	1	1	2	1	0	1	?	1	0	?
FORMIC ACID	3	2	3	3	1	2	1	1	1	1
FREON 11	3	3	3	3	1	1	1	1	1	1
FREON 112	3	3	3	3	1	1	?	1	1	?
FREON 113	3	3	3	3	0	1	?	1	1	?
FREON 114	3	3	3	3	0	1	?	1	1	1
FREON 115	3	3	3	3	1	1	?	1	1	?
FREON 12 (LIQUID)	3	3	3	3	1	1	1	1	1	1
FREON 13	3	3	3	3	1	1	?	1	1	?
FREON 14	3	3	3	3	1	1	?	1	1	?
FREON 21	3	3	3	3	1	1	2	1	2	1
FREON 22	3	3	3	3	1	1	?	1	0	1
FREON 31	3	3	3	3	1	1	?	1	1	?
FREON C 316	3	3	3	3	1	1	?	1	1	?
FREON C 318	3	3	3	3	1	1	?	1	1	?
FUEL OIL	3	3	2	3	1	1	1	1	1	1
FURAN	3	3	3	3	1	1	?	1	1	3
FURFURAL	3	3	3	3	0	1	1	1	1	1
GALLNUTOIL	2	2	3	1	1	1	1	1	0	?
GARLIC	1	3	1	?	1	1	1	1	1	1
GASOLINE OCTANE 100	3	3	3	3	1	1	?	1	2	1
GASOLINE OCTANE 65	3	3	3	3	1	1	?	1	2	1
GELATIN (GLUE)	1	1	1	1	0	1	1	1	1	1
GLUCOSE	1	1	1	1	1	1	?	1	1	1
GLUE	2	1	1	1	1	1	?	1	1	?
GLYCERINE	1	1	1	1	1	1	1	1	1	1
GLYCEROL	1	1	1	1	1	1	1	1	1	1
GLYCOL	1	1	1	1	0	0	?	1	1	?
GRAINSEED OIL	3	3	2	3	1	1	?	1	1	?
GREEN SULFATE LIQUOR	1	1	2	1	0	1	?	1	1	?
HEPTANE	3	3	3	3	1	1	1	1	1	1
HEXALDEHYDE	3	3	3	3	1	1	?	1	0	?

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
HEXANE	3	3	3	3	1	1	1	1	3	1
HEXENE	3	3	2	3	1	0	?	1	0	?
HEXYL ALCOHOL	2	3	2	3	1	1	1	1	1	1
HOG FAT	3	3	2	2	0	1	1	1	1	?
HYDRAULIC OIL ESTER BASE	2	3	3	3	1	1	?	1	1	?
HYDRAULIC OIL MINERAL BASE	3	3	2	3	1	1	?	1	1	?
HYDRAULIC OIL PYDRAUL BASE	3	3	3	3	1	1	?	1	1	?
HYDRAULIC OIL SKYDROL BASE	3	3	3	3	1	1	?	1	1	?
HYDROBROMIC ACID	2	1	2	3	0	0	?	1	1	1
HYDROBROMIC ACID 40%	3	2	3	1	3	3	1	1	1	1
HYDROCHLORIC ACID (338 K)	3	1	3	1	0	0	?	1	1	?
HYDROCHLORIC ACID 15%	1	1	1	1	3	3	1	1	1	1
HYDROCHLORIC ACID 30%	2	1	3	1	3	3	?	1	1	1
HYDROCHLORIC ACID 33% (323 K)	3	2	3	1	0	0	?	0	0	?
HYDROCHLORIC ACID CONC. 38%	3	1	3	1	3	3	1	1	1	1
HYDROCYANIC ACID	2	1	3	1	0	1	?	1	1	1
HYDROFLUORIC ACID	3	2	3	1	3	3	1	1	1	1
HYDROFLUOSILICIC ACID	1	1	2	?	0	3	2	1	1	?
HYDROGEN FLUORIDE (COLD)	3	2	3	1	0	3	?	1	3	1
HYDROGEN FLUORIDE (HOT)	3	3	3	3	3	3	?	1	3	?
HYDROGEN GAS (338 K)	1	1	1	1	1	1	1	1	1	1
HYDROGEN GAS (COLD)	1	1	1	1	1	1	1	1	1	1
HYDROGEN PEROXIDE 10%	3	1	3	1	0	1	1	1	1	1
HYDROGEN PEROXIDE 30%	3	3	3	1	0	1	3	1	1	1
HYDROGEN PEROXIDE 88%	3	3	3	1	1	1	1	1	1	?
HYDROGEN SULPHIDE	1	1	2	1	3	3	1	1	1	1
HYDROGEN SULPHIDE (DRY, COLD)	1	1	3	1	0	1	?	1	1	?
HYDROGEN SULPHIDE (DRY, WARM)	1	1	3	1	0	1	?	1	1	?
HYDROGEN SULPHIDE (MOIST, COLD)	1	1	3	1	0	1	?	1	1	?
HYDROGEN SULPHIDE (MOIST, WARM)	1	1	3	1	0	1	?	1	1	?
HYDROGEN SUPEROXIDE 35%	3	1	0	1	0	0	?	0	0	?
INK OIL	3	3	2	1	1	1	?	1	0	?
IODINE	3	2	3	1	3	3	?	1	1	1
IRON & ZINC PHOSPHATE SOLUTION	1	1	1	1	0	0	?	0	0	?
IRON CHLORIDE	1	1	1	1	3	3	1	1	1	?
IRON CHLORIDE SULPHATE	2	1	3	1	0	0	?	0	0	?
IRON HYDROXIDE	3	1	3	1	0	0	?	0	0	?
IRON NITRATE (338 K)	1	1	1	1	0	1	?	1	1	?
IRON SULPHATE	1	1	1	1	0	1	1	1	1	?
IRON(II) ACETATE SOLUTION	1	1	1	3	0	0	?	0	0	?
ISOAMYLACETATE	3	3	3	3	0	1	?	1	0	?
ISOAMYLALCOHOL	3	3	3	3	0	0	?	1	0	?
ISOAMYLFORMATE	3	3	3	3	0	0	?	1	0	?
ISOBUTENE	3	3	3	3	3	1	?	1	1	?
ISOBUTYLACETATE	3	3	3	3	3	1	?	1	0	?
ISOBUTYLALCOHOL	2	2	3	3	1	0	?	1	1	1

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
ISOBUTYLALDEHYDE	3	3	3	3	0	0	?	1	0	?
ISOBUTYLFORMATE	3	3	3	3	0	0	?	1	0	?
ISOCYANATE	3	3	3	3	0	0	?	0	0	?
ISODECANE	3	3	3	3	0	0	?	1	0	?
ISODODECANE	3	3	3	3	0	0	?	1	0	?
ISOOCTANE	3	3	2	3	1	1	?	1	1	?
ISOPROPYL ACETATE	2	2	3	2	0	1	?	1	1	?
ISOPROPYL ALCOHOL	1	1	2	3	1	1	1	1	1	1
ISOPROPYL CHLORIDE	3	3	3	1	3	1	?	1	3	?
ISOPROPYL ETHER	3	3	3	3	1	1	?	1	3	1
JET FUELS (JP1 TILL JP5)	3	3	2	3	3	1	1	1	1	1
KEROSENE	3	3	2	3	1	1	1	1	1	1
LACQUER SOLVENTS	3	3	0	3	0	1	?	1	2	3
LACQUERS	3	3	0	3	0	1	?	1	0	?
LACTIC ACID	2	2	0	1	0	0	1	1	1	?
LACTOL	3	3	2	3	1	1	?	1	0	?
LARD	3	3	2	2	0	1	1	1	2	1
LAURYL ETHER SULPHATE	2	1	3	2	0	0	?	0	0	?
LEAD ACETATE	1	1	1	1	0	1	1	1	1	?
LEAD ARSENATE	1	1	2	1	1	1	?	1	1	?
LEAD NITRATE	1	1	1	1	3	3	1	1	1	1
LEAD SULPHAMATE	1	1	1	1	0	0	?	1	1	?
LIMESULPHUR	1	1	1	1	0	1	?	1	1	?
LIMEWATER	1	1	1	1	1	1	1	1	0	?
LINSEED OIL	3	3	3	2	0	1	1	1	1	1
LIQUID MANURE	1	1	1	1	1	1	?	1	1	?
LITHIUM HYDROXIDE	1	1	1	1	0	1	?	1	1	1
LUBRICATING OIL	3	3	2	2	1	1	?	1	0	1
LYE (CAUSTIC)	1	1	1	1	0	1	1	1	1	1
MAGNESIUM CARBONATE	1	1	1	1	1	1	1	1	1	?
MAGNESIUM CHLORIDE	1	1	1	1	3	3	1	1	1	?
MAGNESIUM HYDROXIDE	1	1	1	1	1	1	1	1	1	1
MAGNESIUM NITRATE	1	1	1	1	0	1	1	1	1	?
MAGNESIUM SULPHATE	1	1	1	1	0	1	1	1	1	?
MAGNESIUM SULPHIDE	3	1	3	1	0	0	?	0	0	?
MAGNESIUM SULPHITE	3	1	3	1	0	0	?	0	0	?
MANGANESE SULPHATE	1	1	1	1	0	0	1	1	0	?
MARGARINE OIL	3	3	1	3	0	0	?	0	0	?
MERCURY	1	1	1	1	1	1	1	1	1	1
MERCURY CYANIDE	1	1	2	1	0	1	?	1	1	1
MERCURY(I) CHLORIDE	1	1	2	1	3	3	1	1	1	?
MERCURY(II) CHLORIDE	1	1	2	1	3	3	1	1	1	?
METHANOL (methyl alcohol)	1	1	1	1	1	1	1	1	1	1
METHYLACETATE	2	2	3	3	1	1	3	1	2	1
METHYLACETOACETATE	3	3	3	3	0	1	?	1	0	?
METHYLACETONE	2	2	3	3	0	1	3	1	0	3

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
METHYLAMINE	3	3	3	3	1	1	?	1	3	2
METHYLAMYLACETATE	3	3	3	3	0	1	?	1	0	?
METHYLAMYLCARBINOL	3	3	3	3	1	1	?	1	0	?
METHYLANILINE	3	3	3	3	0	0	?	1	0	?
METHYLBROMIDE	3	3	3	3	1	1	?	1	3	1
METHYLBUTYL KETONE	2	2	2	3	1	1	1	0	3	3
METHYLBUTYRATE	3	3	3	3	0	0	?	1	0	?
METHYLCELLOSOLVE (2-methoxyethanol)	3	3	3	3	0	1	1	1	1	1
METHYLCHLORIDE	3	3	3	3	0	1	3	1	2	1
METHYLENECHLORIDE	3	3	3	3	0	1	3	1	3	2
METHYLETHYL KETONE (MEK)	3	3	3	3	1	1	3	1	3	3
METHYLFORMATE	3	3	3	3	1	0	?	1	0	?
METHYLIODIDE	3	3	3	3	0	1	?	1	0	?
METHYLISOBUTYL KETONE	2	3	2	3	1	1	1	1	1	2
METHYLISOBUTYLCARBINOL	3	3	3	3	0	0	?	1	0	?
METHYLISOBUTYRATE	3	3	3	3	0	0	?	1	0	?
METHYLISOPROPYL KETONE	3	3	3	3	1	1	?	1	2	1
METHYLMETHACRYLATE	3	3	3	3	0	1	?	1	0	1
METHYLOLEATE	3	3	3	3	0	0	?	1	0	?
METHYLPROPIONATE	3	3	3	3	0	0	?	1	0	?
METHYLSALICYLATE	3	3	3	3	1	0	?	1	0	?
MILK	2	2	1	1	0	1	?	1	1	1
MINERAL OIL	3	3	1	1	1	1	1	1	1	1
MOLASSES	1	1	1	1	1	1	1	1	1	1
MONOBROMOBENZENE	3	3	3	3	0	0	?	1	0	?
MONOCHLOROANILINE	3	3	3	3	0	0	?	1	0	?
MONOCHLOROBENZENE	3	3	3	3	1	1	3	1	0	?
MONOCHLORODIFLUOROMETHANE	3	3	3	3	0	1	?	1	1	?
MONOCHLOROTRIFLUOROMETHANE	3	3	3	3	0	0	?	1	0	?
MONOETHANOLAMINE	3	3	3	3	1	1	?	1	1	2
MONOSODIUM GLUTAMATE	3	1	1	2	0	0	?	0	0	?
MOTOR OIL	3	3	2	2	1	1	?	1	0	?
MURIATIC ACID (= hydrochloric acid)	2	1	3	1	0	0	?	1	0	?
NAPHTA	3	3	0	3	1	1	1	1	1	?
NAPHTALENE	3	3	3	3	1	1	3	1	3	1
NAPHTHENE	3	3	3	3	1	1	?	1	0	?
NATURAL GAS	2	2	1	2	1	1	?	1	1	?
NATURAL GAS (DRY)	2	2	1	1	1	1	1	1	1	?
NATURAL GAS (WET)	2	2	1	1	1	1	1	1	1	?
NICKEL CHLORIDE	1	1	1	1	3	3	1	1	1	?
NICKEL HYDROXIDE	2	1	0	1	0	0	?	0	0	?
NICKEL NITRATE	1	1	1	1	3	3	1	1	1	?
NICKEL SULPHATE	1	1	1	1	0	1	1	1	1	?
NICOTINE BENTONITE	3	3	2	3	0	0	?	1	0	?
NICOTINE SULPHATE	1	1	1	1	0	0	?	1	0	?

RELIABILITY CENTERED MAINTENANCE ENGINEERING

MTG Official Partner

	HOSES				INSERTS					
1 = Good, 2 = Moderate, 3 = Bad	NR	EPDM	NBR	CSM	STEEL	SS316	PVC	PTFE	PP	PVDF
NITRIC ACID (FUMING)	3	3	3	1	3	3	?	0	3	?
NITRIC ACID 10%	3	1	3	1	0	1	1	1	1	1
NITRIC ACID 2%	3	1	3	1	0	1	1	1	1	1
NITRIC ACID 25%	3	2	3	1	0	0	1	1	1	1
NITRIC ACID 40%	3	2	3	2	0	1	1	1	1	1
NITRIC ACID 50%	3	3	3	3	0	1	2	1	3	1
NITRIC ACID 60%	3	3	3	3	0	1	2	1	3	1
NITRIC ACID 70%	3	3	3	3	0	1	2	1	3	3
NITROBENZENE	3	3	3	3	1	1	?	1	1	1
NITROETHANE	3	3	3	3	0	1	?	1	2	1
NITROGLYCERINE	3	3	3	3	0	0	?	1	0	?
NITROMETHANE	3	3	3	3	1	1	?	1	2	1
NITROOCTANE	3	3	3	3	0	0	?	1	0	?
NITROPROPANE	3	3	3	3	0	1	?	1	0	?
NITROSYLCHLORIDE	3	3	3	3	0	1	?	1	0	?
NITROUS ACID	3	1	3	1	0	1	?	1	1	?
OCTANE	3	3	2	3	1	0	?	1	3	1
OCTYL ALCOHOL	3	3	3	3	1	1	?	0	0	?
OCTYL ALDEHYDE	3	3	3	3	0	0	?	1	0	?
OLEIC ACID	3	3	3	3	0	0	2	1	0	?
OLEINIC ACID	3	3	3	3	0	1	?	1	0	?
OLEUM (fuming sulfuric acid)	3	2	3	2	0	0	3	1	1	?
OLIVE OIL	3	3	2	3	0	1	1	1	1	1
OXALIC ACID	1	1	2	1	0	3	1	1	1	1
OXYGEN	2	1	2	1	1	1	1	1	1	1
OZONE	3	1	3	1	1	1	2	1	3	1
PALM OIL	3	3	2	3	1	1	?	1	0	?
PALMITIC ACID	3	3	2	3	1	1	?	1	1	1
PARAFFIN OIL 50%	3	3	3	3	1	1	1	1	1	1
PARAFORMALDEHYDE	3	3	2	3	0	1	?	1	0	?
p-CYMENE	3	3	3	3	0	0	?	1	0	?
PENTACHLOROPHENOL	3	3	3	3	1	0	?	1	0	?
PENTANE	3	3	2	3	0	0	?	1	0	?
PERACETIC ACID 15% (peroxyacetic acid)	3	1	3	1	0	0	?	1	1	?
PERCHLORIC ACID	3	3	3	2	0	1	2	1	0	?
PERCHLORO ETHENE	3	3	3	3	1	1	?	1	0	?
PETROLEUM (till 363 K)	3	3	3	3	1	1	?	1	3	1
PHENOL	3	3	3	3	0	0	1	0	1	1
PHENYL ETHYL ETHER	3	3	3	3	0	0	?	1	0	?
PHOSPHOR TRIBUTYRATE	0	3	3	?	0	0	?	1	0	?
PHOSPHORIC ACID 50%	1	1	2	1	0	1	1	1	0	1