



PLASTICS CHEMICAL COMPATIBILITY CHART



**PLASTICS
INTERNATIONAL™**

Shaping the World of Plastics

TABLE OF CONTENTS

ACETALDEHYDE AQ.....	3	FERROUS CHLORIDE AQ.....	4	PHOSPHORIC ACID AQ.....	6
ACETIC ACID AQ.....	3	FLUORINE.....	4	PHOSPHORIC ACID AQ.....	6
ACETONE.....	3	FLUOSILICIC ACID AQ.....	4	PHOSPHORIC ACID AQ.....	6
ALCOHOLS, ALIPHATIC.....	3	FREON 12 (ARCTON 12).....	4	PHTHALIC ACID AQ.....	6
ALUMINUM CHLORIDE AQ.....	3	FORMALDEHYDE AQ.....	4	POTASSIUM BICARB. AQ.....	6
ALUMINUM SULPHATE AQ.....	3	FORMIC ACID AQ.....	4	POTASSIUM CHLORIDE AQ.....	6
AMMONIA GAS.....	3	FRUIT JUICES.....	4	POTASSIUM FERROCYANIDE AQ.....	6
AMMONIUM CARBONATE AQ.....	3	GLYCERINE.....	4	PROPANE GAS.....	6
AMMONIUM CHLORIDE AQ.....	3	HEPTANE.....	4	SALICYLIC ACID.....	6
AMYL ACETATE.....	3	HYDROBROMIC ACID AQ.....	4	SILICONE FLUIDS.....	6
ANILLNE.....	3	HYDROCHLORIC ACID AQ.....	5	SILVER NITRATE.....	6
ANTIMONY TRICHLORIDE AQ.....	3	HYDROFLUORIC ACID AQ.....	5	SOAP SOLUTIONS.....	6
BARLIUM CHLORIDE AQ.....	3	HYDROGENATED VEGETABLE OILS... 5		SODIUM ACETATE AQ.....	6
BARLIUM SULPHATE AQ.....	3	HYDROGEN PEROXIDE AQ.....	5	SODIUM BICARBONATE AQ.....	6
BENZENE.....	3	HYDROGEN PEROXIDE AQ.....	5	SODIUM HYPOCHLORITE 15% (CHLORINE BLEACH).....	6
BENZENE SULPHONIC ACID.....	3	HYDROGEN PEROXIDE AQ.....	5	SODIUM NITRATE AQ.....	6
BLEACHING LYE.....	3	HYDROGEN SULPHIDE AQ.....	5	STANNIC CHLORIDE AQ.....	6
BORIC ACID AQ.....	3	HYDROQUINONE.....	5	STEARIC ACID.....	6
BORON TRIFLUORIDE.....	3	IODINE (IN ALCOHOL).....	5	STYRENE (MONOMER).....	7
BROMINE AQ.....	3	IODINE (IN POT IODINE) AQ.....	5	SULPHUR DIOXIDE (DRY GAS).....	7
BUTANOL.....	3	ISOPROPYLALCOHOL.....	5	SULPHURIC ACID AQ.....	7
BUTYRIC ACID AQ.....	3	LACTIC ACID AQ.....	5	SULPHURIC ACID AQ.....	7
BUTYRIC ACID.....	3	LACTIC ACID AQ.....	5	SULPHUROUS ACID AQ.....	7
CALCIUM HYPOCHLORITE.....	3	LEAD ACETATE AQ.....	5	TALLOW.....	7
CAMPHOR.....	3	LINSEED OIL.....	5	TAR.....	7
CARBON TETRACHLORIDE.....	3	LUBRICATING OILS (PETROLEUM).... 5		TOLUENE.....	7
CHLORAL HYDRATE.....	3	MAGNESIUM CHLORIDE AQ.....	5	TRANSFORMER OIL.....	7
CHLORINE AQ.....	3	MALEICS ACID.....	5	TRICHLORETHYLENE.....	7
CHLOROFORM.....	4	MALONIC ACID AQ.....	5	TRIETHANOLAMINE.....	7
CHLOROSULPHONIC ACID AQ.....	4	MERCURIC CHLORIDE AQ.....	5	TURPENTINE.....	7
CHROME ALUM AQ.....	4	METHYL ACETATE.....	5	TRISODIUM PHOSPHATE AQ.....	7
CHROMIC ACID AQ.....	4	METHYL ETHYL KETONE.....	5	UREA.....	7
CITRIC ACID AQ.....	4	METHYL CHLORIDE.....	5	VASELINE.....	7
CREOSOTE.....	4	MILK.....	5	VEGETABLE OILS.....	7
CRESYLIC ACID.....	4	MINERAL OILS.....	5	VINEGAR.....	7
CYCLOHEXANOL.....	4	NAPHTHALENE.....	5	VINYL CHLORIDE.....	7
CYCLOHEXANONE.....	4	NICKEL SULPHATE AQ.....	5	WATER.....	7
DETERGENTS, ORGANIC.....	4	NITRIC ACID AQ.....	6	WAX (MOLTEN).....	7
DIBUTYLPHTHALATE.....	4	NITRIC ACID AQ.....	6	WHITE SPIRIT.....	7
DIESEL OIL.....	4	OLEIC ACID.....	6	WINES AND SPIRITS.....	7
DIOXAN.....	4	OXALIC ACID AQ.....	6	XYLENE.....	7
EDIBLE OILS.....	4	OZONE.....	6	XYLENOL.....	7
ETHER, DIETHYL.....	4	PARAFFIN.....	6	ZINC CHLORIDE AQ.....	7
ETHYL ACETATE.....	4	PERCHLORIC ACID AQ.....	6		
ETHYLENE DICHLORIDE.....	4	PETROL.....	6		
ETHYLENE GLYCOL AQ.....	4	PHENOL AQ.....	6		

CHEMICAL RESISTANCE GUIDE

ALPHABETICAL LISTING OF MATERIALS	Concentration + Weight %	ABS	Acetal	Acrylic	CAB	CPVC	ECTFE (Halar®)	Fluorosint®	HDPE	Nylon®, Type 6/6	PEEK	PET	Polycarbonate	Polypropylene	Polysulfone	PPS	PVC, Type I	PVC, Type II	PVDF	PTFE	Tecator™/Torlon®	UHMW
		Acetaldehyde Aq.	40	D	A	D	*	D	*	A	C	B	A	A	*	C	*	A	D	D	D	A
Acetic Acid Aq.	10	*	B	B	C	A	A	A	*	C	A	B	D	*	A	A	A	A	B	A	A	A
Acetone		D	B	D	*	D	A	A	A	A	B	B	C	A	B	A	D	D	D	A	*	*
Alcohols, Aliphatic		*	A	D	*	*	A	A	*	B	A	A	*	*	*	A	*	*	A	A	A	A
Aluminum Chloride Aq.	10	*	*	*	A	A	*	A	B	*	A	A	A	A	*	A	A	A	A	A	A	A
Aluminum Sulphate Aq.	10	*	*	*	A	A	A	A	A	*	A	*	A	A	*	A	A	A	A	A	A	A
Ammonia Gas		*	*	*	*	A	A	A	A	C	A	A	*	A	*	*	A	A	D	A	*	*
Ammonium Carbonate Aq.	10	*	*	*	*	A	A	A	A	A	A	A	D	A	*	A	A	A	A	A	*	*
Ammonium Chloride Aq.	10	*	*	*	A	A	A	A	A	A	A	A	C	A	*	A	A	A	A	A	A	A
Amyl Acetate		D	*	D	*	*	*	A	D	A	A	*	*	D	*	A	D	D	B	A	A	A
Aniline		*	A	D	*	D	A	A	A	C	A	A	*	C	*	A	D	D	C	A	A	A
Antimony Trichloride Aq.	10	*	*	A	*	A	A	A	A	C	A	*	*	A	*	*	A	A	*	A	*	*
Barium Chloride Aq.	10	*	*	A	*	A	A	A	A	A	*	*	*	A	*	A	A	A	A	A	A	A
Barium Sulphate Aq.	10	*	*	*	*	A	A	A	A	*	A	*	*	A	*	*	A	A	*	A	*	*
Benzene		D	A	D	D	D	A	A	D	A	A	A	D	D	D	A	D	D	C	A	*	*
Benzene Sulphonic Acid	10	*	*	*	*	*	A	A	A	D	A	*	*	*	*	A	*	*	B	A	C	C
Bleaching Lye	10	C	*	*	*	A	A	A	B	C	A	*	*	B	*	*	A	A	A	A	A	A
Boric Acid Aq.	10	*	*	*	*	A	A	A	A	A	A	A	*	A	*	A	A	A	A	A	*	*
Boron Trifluoride		*	*	*	*	A	*	A	A	D	*	*	*	A	*	*	A	A	A	*	*	*
Bromine Aq.	30	*	*	*	*	D	A	*	D	D	B	*	*	D	*	A	A	D	A	*	A	A
Butanol		*	*	*	*	A	*	A	A	B	A	B	*	*	C	A	A	D	*	A	A	A
Butyric Acid Aq.	20	*	*	C	*	*	*	A	D	B	A	*	*	D	*	A	*	*	A	A	*	*
Butyric Acid	CONC	D	*	D	*	*	*	A	D	C	A	*	*	D	*	A	A	D	A	A	*	*
Calcium Hypochlorite		*	*	*	C	*	A	A	A	D	A	A	C	A	*	A	A	A	A	A	*	*
Camphor		*	*	*	*	*	*	A	*	A	A	*	*	*	*	A	*	*	*	A	*	*
Carbon Tetrachloride		D	A	*	C	C	A	A	D	A	A	A	*	D	A	A	C	D	A	A	A	A
Chloral Hydrate		*	*	*	*	A	*	A	D	D	A	*	*	D	*	*	A	A	A	A	*	*
Chlorine Aq.	10	*	*	*	*	A	*	A	C	D	A	*	*	B	D	*	A	A	B	A	*	*

A = No Attack, possibly slight absorption. Negligible effect on mechanical properties.
 B = Slight attack by absorption. Some swelling and a small reduction in mechanical likely.
 C = Moderate attack of appreciable absorption. Material will have limited life.
 D = Material will decompose or dissolve in a short.

AQ. = Aqueous Solution
 CONC = Concentrated Aqueous Solution
 SAT = Saturated Aqueous Solution
 * = No data available

Where Aqueous Solutions are shown the concentration as a weight % is given.

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		Chloroform		D	*	*	D	D	A	A	C	D	A	D	D	D	D	A	D	D	B	A	A
Chlorosulphonic Acid Aq.	10	*	*	D	*	*	A	A	D	D	A	*	*	C	*	D	C	C	D	A	*	*	
Chrome Alum Aq.	10	*	*	*	*	*	*	A	*	A	A	*	*	*	*	*	A	A	A	A	*	*	
Chromic Acid Aq.	10	*	*	D	A	A	A	A	A	C	A	A	C	A	D	B	A	D	B	A	A	A	
Citric Acid Aq.	10	B	*	C	B	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	*	*	
Creosote		*	*	*	*	*	*	A	*	A	A	*	*	*	*	*	*	*	*	A	A	*	*
Cresylic Acid		*	*	*	*	A	A	A	D	D	A	*	*	D	*	*	A	C	A	A	*	*	
Cyclohexanol		*	*	*	*	D	A	A	D	B	A	A	*	D	*	A	D	D	A	A	A	A	
Cyclohexanone		*	*	*	D	D	A	A	D	A	A	A	*	D	D	*	D	D	A	A	A	A	
Detergents, Organic		*	*	*	*	A	A	A	*	A	A	A	*	*	*	A	A	A	*	A	*	A	
Dibutylphthalate		*	*	*	*	*	*	A	*	A	A	*	*	*	*	*	*	*	D	A	A	A	
Diesel Oil		*	*	A	*	*	A	A	*	A	A	A	*	*	*	A	*	*	*	A	A	A	
Dioxan		*	A	*	*	*	A	A	*	A	A	A	*	*	*	*	*	*	*	A	A	A	
Edible Oils		*	A	*	*	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A	A	A	
Ether, Diethyl		*	A	*	*	*	*	A	*	A	A	A	*	*	*	A	*	*	*	A	A	A	
Ethyl Acetate		D	*	D	*	*	A	A	C	A	A	*	D	A	*	A	D	D	D	A	A	A	
Ethylene Dichloride		D	*	*	*	D	A	A	D	B	A	A	*	D	*	A	D	D	A	A	A	*	
Ethylene Glycol Aq.	96	*	*	A	D	A	A	A	A	B	A	*	C	A	A	A	A	A	A	A	A	A	
Ferrous Chloride Aq.	10	*	*	A	*	A	A	A	*	C	A	*	*	*	*	A	A	A	A	A	*	*	
Fluorine		*	*	*	*	A	A	C	C	D	D	*	*	C	*	*	A	A	A	C	*	C	
Fluosilicic Acid Aq.	10	*	*	*	A	*	A	*	A	D	*	*	*	A	*	A	*	*	A	*	*	A	
Freon 12 (Arcton 12)		*	*	*	B	A	A	A	A	A	A	A	A	A	*	B	A	A	*	A	*	*	
Formaldehyde Aq.	40	*	A	A	A	A	A	A	A	B	A	A	C	A	A	A	A	B	A	A	A	A	
Formic Acid Aq.	3	*	D	D	*	A	A	A	*	B	B	B	A	*	*	A	A	A	A	A	D	A	
Fruit Juices	CONC	A	*	*	*	A	A	A	A	B	A	A	C	A	*	A	A	A	A	A	A	A	
Glycerine		A	*	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Heptane		*	A	*	*	*	A	A	*	A	A	A	C	*	A	A	A	A	A	A	A	A	
Hydrobromic Acid Aq.	10	A	*	*	*	*	A	A	*	D	D	*	*	C	A	A	A	A	A	A	*	A	

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		Hydrochloric Acid Aq.	0.4	*	*	A	B	A	A	A	A	*	A	A	A	A	A	A	A	A	A	A
Hydrofluoric Acid Aq.	4	*	D	C	C	*	A	A	B	C	D	B	B	A	B	D	A	A	A	*	A	A
Hydrogenated Vegetable Oils		*	*	*	*	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A	A	A
Hydrogen Peroxide Aq.	0.5	*	*	*	A	*	A	A	A	C	A	A	A	A	A	A	A	A	B	A	*	A
Hydrogen Peroxide Aq.	1	*	*	*	*	*	A	A	*	*	A	A	A	*	A	A	*	*	B	A	*	A
Hydrogen Peroxide Aq.	3	*	D	*	*	*	A	A	*	D	A	A	A	*	A	A	*	*	B	A	*	A
Hydrogen Sulphide Aq.	SAT	*	C	A	A	A	A	A	A	B	A	C	*	A	*	A	A	A	A	A	*	A
Hydroquinone		*	*	*	B	*	A	A	A	B	A	*	*	A	*	*	A	A	A	A	*	*
Iodine (in Alcohol)		*	*	*	*	*	A	A	D	D	A	*	*	B	*	*	*	*	B	A	*	A
Iodine (in Pot Iodine) Aq.	3	*	*	*	*	*	A	A	D	D	A	*	*	B	*	*	*	*	A	A	*	A
Isopropylalcohol		C	A	*	C	*	A	A	A	B	A	A	*	A	*	A	*	*	A	A	*	A
Lactic Acid Aq.	10	*	B	*	A	*	A	A	A	C	A	A	A	A	*	A	A	A	A	A	A	A
Lactic Acid Aq.	90	*	*	*	*	*	A	A	*	*	A	*	*	*	*	A	*	*	A	A	A	A
Lead Acetate Aq.	10	*	*	*	*	A	A	A	A	B	A	*	*	A	*	A	A	A	A	A	*	A
Linseed Oil		*	A	*	*	A	A	A	D	A	A	*	A	*	A	A	A	A	A	*	A	A
Lubricating Oils (Petroleum)		*	A	*	*	A	*	A	C	A	A	A	B	C	*	A	A	A	A	A	A	A
Magnesium Chloride Aq.	10	*	A	*	*	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A	A	A
Maleics Acid	CONC	*	*	*	*	A	A	A	A	*	A	*	*	A	*	*	A	A	A	*	*	*
Malonic Acid Aq.	CONC	*	*	*	*	*	A	*	*	A	*	*	*	A	*	*	*	*	A	*	*	A
Mercuric Chloride Aq.	6	*	B	A	*	A	A	A	A	C	A	*	*	A	*	*	A	A	A	A	*	B
Methyl Acetate		*	B	*	D	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A	*	A
Methyl Ethyl Ketone		D	B	D	D	D	A	A	D	A	A	A	D	D	D	A	D	D	D	A	A	A
Methyl Chloride		*	C	*	D	D	A	A	D	C	A	D	D	D	D	A	D	D	A	A	*	A
Milk		B	A	*	*	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A	*	A
Mineral Oils		*	A	*	*	A	A	A	B	A	A	*	C	C	*	A	A	A	A	A	A	A
Naphthalene		D	*	*	*	D	A	A	B	A	A	A	*	B	*	A	D	D	C	A	*	A
Nickel Sulphate Aq.	10	*	*	A	*	A	A	A	A	A	A	*	A	A	*	A	A	A	A	A	*	A

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		Nitric Acid Aq.	0.1	B	D	A	D	A	A	A	A	C	A	*	A	A	A	*	A	A	A	A
Nitric Acid Aq.	10	*	D	*	*	A	A	A	*	D	A	C	*	*	A	A	A	A	B	A	*	B
Oleic Acid		*	C	*	A	*	A	A	A	A	A	*	C	B	A	A	A	A	A	A	*	A
Oxalic Acid Aq.	10	*	C	A	*	A	A	A	A	C	A	*	*	A	A	A	A	A	C	A	*	A
Ozone		*	C	*	B	A	A	A	D	C	A	A	D	C	A	*	A	A	B	A	*	A
Paraffin		*	A	*	*	*	A	A		A	A	A	*	*	*	A	A		A	A	A	A
Perchloric Acid Aq.	10	*	C	*	*	A	A	A	B	D	A	A	*	C	*	*	A	A	A	A	*	A
Petrol		*	A	*	*	*	A	A	A	A	A	A	*	*	*	A	*	*	A	A	A	A
Phenol Aq.	75	*	D	*	*	*	A	A	*	D	D	C	*	*	*	*	*	*	C	A	*	A
Phosphoric Acid Aq.	0.3	*	*	A	A	A	A	A	A	*	A	A	C	A	A	A	A	A	A	A	A	A
Phosphoric Acid Aq.	3	*	C	*	*	A	A	A	*	*	A	A	*	*	A	A	A	A	A	A	A	A
Phosphoric Acid Aq.	10	*	C	*	*	A	A	A	*	D	A	B	*	*	A	A	A	A	A	A	A	A
Phthalic Acid Aq.	SAT	*	*	*	*	*	*	A	*	B	A	*	*	*	*	*	*	*	B	A	*	*
Potassium Bicarb. Aq.	60	*	*	*	*	A	*	A	A	A	A	A	*	A	*	A	A	A	A	A	*	A
Potassium Chloride Aq.	90	A	*	A	A	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A	*	*
Potassium Ferrocyanide Aq.	30	*	*	A	*	A	A	A	*	A	A	*	*	*	*	*	A	A	A	A	*	A
Propane Gas		*	*	*	A	A	A	A	D	A	B	A	*	C	*	A	A	A	A	A	*	A
Salicylic Acid		*	*	*	*	*	A	A	*	A	A	A	*	*	*	*	*	*	A	A	*	A
Silicone Fluids		D	*	*	*	*	A	A	*	A	A	A	*	*	*	A	*	*	A	A	A	A
Silver Nitrate		*	A	*	A	A	A	A	A	A	A	A	*	A	*	A	A	A	A	A	*	A
Soap Solutions		B	A	*	*	A	A	A	A	A	A	A	*	A	*	A	A	A	A	A	*	A
Sodium Acetate Aq.	60	*	*	A	A	A	A	A	A	B	A	A	*	A	*	A	A	A	A	A	*	A
Sodium Bicarbonate Aq.	50	*	A	A	A	A	A	A	A	A	A	A	A	B	*	A	A	A	A	A	A	A
Sodium Hypochlorite 15% (Chlorine Bleach)		*	C	A	*	*	A	A	A	D	A	A	A	A	A	B	A	A	A	A	A	A
Sodium Nitrate Aq.	50	*	A	A	*	A	A	A	A	A	A	A	*	A	*	A	A	A	A	A	*	A
Stannic Chloride Aq.	10	*	*	*	*	*	*	A	A	C	A	*	*	A	*	A	*	*	A	A	*	*
Stearic Acid		*	*	*	*	A	A	A	A	A	A	*	*	A	*	*	A	A	A	A	*	A

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CHEMICAL RESISTANCE GUIDE

ALPHABETICAL LISTING OF MATERIALS	Concentration + Weight %	ABS	Acetal	Acrylic	CAB	CPVC	ECTFE (Halar®)	Fluorosint®	HDPE	Nylon®, Type 6/6	PEEK	PET	Polycarbonate	Polypropylene	Polysulfone	PPS	PVC, Type I	PVC, Type II	PVDF	PTFE	Tecator™/Torlon®	UHMW
		Styrene (Monomer)		*	*	*	D	*	A	A	*	A	A	C	*	*	*	A	*	*	A	A
Sulphur Dioxide (Dry Gas)	100	D	B	A	C	A	A	A	A	B	A	B	*	A	*	A	A	A	B	A	A	A
Sulphuric Acid Aq.	2	B	D	D	*	A	A	A	A	C	A	A	A	A	A	A	A	A	B	A	A	A
Sulphuric Acid Aq.	5	*	D	*	*	*	A	A	*	D	A	A	*	*	A	A	A	A	B	A	A	A
Sulphurous Acid Aq.	10	*	C	A	*	A	A	A	A	D	A	C	*	A	*	*	A	A	*	A	*	A
Tallow		*	*	*	*	*	*	A	A	A	A	*	*	*	*	A	*	*	A	A	A	A
Tar		*	*	*	*	*	A	A	*	B	A	*	*	*	*	A	*	*	A	A	A	*
Toluene		D	A	*	D	D	*	A	D	A	A	A	D	D	D	A	D	D	B	A	A	B
Transformer Oil		*	*	D	*	*	A	A	*	A	A	*	*	*	*	A	*	*	A	A	A	A
Trichlorethylene		*	B	*	D	D	A	A	D	B	A	B	*	D	D	A	D	D	A	A	A	B
Triethanolamine		*	*	*	*	*	A	A	A	A	A	B	*	A	*	A	A	A	A	A	D	A
Turpentine		D	A	*	*	A	A	A	D	A	A	*	D	D	B	A	A	C	A	A	A	A
Trisodium Phosphate Aq.	95	*	*	A	*	A	A	A	A	*	A	A	*	A	*	A	A	A	*	A	*	*
Urea		*	A	*	*	A	A	A	A	A	A	A	*	A	*	A	A	A	A	A	*	A
Vaseline		B	A	*	*	A	A	A	A	A	A	A	A	*	*	A	A	A	A	A	A	A
Vegetable Oils		C	A	*	*	*	A	A	*	A	A	A	*	*	*	A	*	*	A	A	A	A
Vinegar		A	B	*	*	A	A	A	A	C	A	A	*	A	*	A	A	A	A	A	A	A
Vinyl Chloride		*	*	*	*	*	*	A	*	A	A	*	*	*	*	A	*	*	A	A	*	*
Water		A	A	*	*	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Wax (Molten)		C	A	*	*	*	A	A	*	A	A	A	*	*	*	A	*	*	*	A	A	A
White Spirit		*	A	*	*	A	A	A	*	A	A	*	*	*	*	A	*	*	A	A	*	A
Wines and Spirits		B	*	*	*	A	A	A	*	B	A	A	A	*	*	A	A	A	A	A	A	A
Xylene		D	*	D	D	D	A	A	D	D	A	A	*	D	D	A	D	D	A	A	A	B
Xylenol		*	*	*	*	A	*	A	*	D	A	*	*	*	*	*	*	*	*	A	A	*
Zinc Chloride Aq.	10	*	*	A	A	A	*	A	A	C	A	*	C	A	A	A	A	A	A	A	*	A

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RAPID RESPONSE

- To your Quote Requests
- Most Stock Items Cut and Ship
Same Day

INDUSTRY COMPLIANT MATERIALS

- ESD
- Metal Detectable
- High Temperature Applications

