

MANTIS, TEMPEST, FORMULATOR Chip, and F.A.S.T. Chemical Compatibility Chart

General Guidelines
for Reagent Compatibility and Chip/Tip Selection



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The chemical compatibility chart is intended to assist FORMULATRIX customers in determining the proper chip type (MANTIS/TEMPEST/FORMLATOR) or tip compatibility (F.A.S.T.) for their reagents. This guide was compiled from sources within and outside of FORMULATRIX and is accurate to the best of our knowledge.

Chip and tip chemical compatibility is dependent on a variety of factors, such as temperature, static/dynamic exposure, duration, concentration, etc. The dynamic nature of the diaphragm pumps means that chemical compatibility requirements must be more stringent than in static systems (o-rings or gaskets). However, the reusable F.A.S.T. tips may survive single exposures to chemicals that would cause degradation with prolonged exposure, so F.A.S.T. tips also show a “limited resistance” rating in some cases.

FORMULATRIX can provide assistance and recommendations on reagent compatibility, but users are ultimately responsible for choosing the proper chip type for their reagent and making informed choices so as not to unduly expose their device to reagent damage. FORMULATRIX assumes no liability for inaccuracies in this chart and offers no guarantee for the accuracy of the data included here. Damage caused to FORMULATRIX instruments due to irresponsible exposure to incompatible reagents is not covered under warranty or service contract.

This guide will be updated periodically without any notice.

Compatibility Table

Legend:

- + Compatible
- ± Compatible with limited resistance
- Not Compatible

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
A				
Acetaldehyde	+	+	+	±
Acetamide	+	+	+	Info not available
Acetate Solvent	–	–	–	Info not available
Acetic Acid	Info not available	Info not available	Info not available	+
Acetic Acid 5%	Info not available	Info not available	Info not available	+
Acetic Acid 20%	+	+	+	Info not available
Acetic Acid 50%	Info not available	Info not available	Info not available	+
Acetic Acid 80%	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Acetic Acid, Glacial	+	+	+	+
Acetic Anhydride	-	+	-	Info not available
Acetone	-	+	-	+
Acetonitrile	-	+	-	+
Acetophenone	Info not available	Info not available	Info not available	+
Acetyl Chloride (dry)	-	-	-	Info not available
Acetylene	+	+	+	Info not available
Acrylonitrile	-	+	-	Info not available
Adipic Acid	Info not available	Info not available	Info not available	+
Alcohols Allyl	Info not available	Info not available	Info not available	+
Alcohols Amyl	-	+	-	+
Alcoholc Butyl	+	+	+	Info not available
Alcohols Diacetone	-	+	-	Info not available
Alcohols Ethyl	+	+	+	Info not available
Alcohols Hexyl	+	+	+	Info not available
Alcohols: Isobutyl	+	+	+	Info not available
Alcohols: Isopropyl	+	+	+	Info not available
Alcohols: Methyl	+	+	+	Info not available
Alcohols: Octyl	+	+	+	Info not available
Alcohols: Propyl	+	+	+	Info not available
Aluminum Chloride	+	+	+	+
Aluminum Fluoride	+	+	+	Info not available
Aluminum Hydroxide	Info not available	+	Info not available	Info not available
Aluminum Nitrate	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Aluminum Potassium Sulfate	+	+	+	Info not available
Aluminum Sulfate	+	+	+	Info not available
Alums	+	+	+	Info not available
Amines	+	+	+	Info not available
Amino Acids	Info not available	Info not available	Info not available	+
Ammonia, anhydrous	-	+	-	Info not available
Ammonia Aqueous sat sol	Info not available	Info not available	Info not available	+
Ammonia Liquid 100%	Info not available	Info not available	Info not available	+
Ammonia Acetate sat sol	Info not available	Info not available	Info not available	+
Ammonia Chloride sat sol	Info not available	Info not available	Info not available	+
Amyl Acetate 100%	Info not available	Info not available	Info not available	±
Aniline 100%	Info not available	Info not available	Info not available	+
Antimony Trichloride	Info not available	+	Info not available	Info not available
Aqua Regia (80% HCl, 20% HNO3)	-	+	-	-
Aroclor 1249	+	+	+	Info not available
Aromatic Hydrocarbons	-	+	-	Info not available
Arsenic Acid	+	+	+	+
B				
2-Butanol	Info not available	Info not available	Info not available	+
Barium Carbonate	+	+	+	Info not available
Barium Chloride	+	+	+	Info not available
Barium Hydroxide	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Barium Nitrate	+	+	+	Info not available
Barium Sulfate	+	+	+	Info not available
Barium Sulfide	+	+	+	Info not available
Beer	+	+	+	Info not available
Beet Sugar Liquids	+	+	+	Info not available
Benzaldehyde	-	+	-	+
Benzene	-	+	-	-
Benzene Sulfonic Acid	-	+	-	Info not available
Benzoic Acid	+	+	+	Info not available
Benzol	-	+	-	Info not available
Benzyl Chloride	-	+	-	Info not available
Benzyl Alcohol	Info not available	Info not available	Info not available	-
Bleaching Liquors	+	+	+	Info not available
Boric Acid	+	+	+	+
Butane	-	+	-	Info not available
Butyl Amine	+	+	+	Info not available
Butyl Ether	-	+	-	Info not available
Butyl Acetate	-	+	-	-
Butylene	-	+	-	Info not available
Butyric Acid	-	+	-	Info not available
C				
Calcium Bisulfate	+	+	+	Info not available
Calcium Bisulfide	+	+	+	Info not available
Calcium Bisulfite	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Calcium Carbonate	+	+	+	Info not available
Calcium Chlorate	Info not available	Info not available	Info not available	+
Calcium Chloride	+	+	+	±
Calcium Hydroxide	+	+	+	±
Calcium Hypochlorite	+	+	+	±
Calcium Nitrate	+	+	+	Info not available
Calcium Oxide	+	+	+	Info not available
Calcium Sulfate	+	+	+	Info not available
Calgon	+	Info not available	+	Info not available
Carbazole	Info not available	Info not available	Info not available	+
Carbon Dioxide (dry)	+	+	+	Info not available
Carbon Dioxide (wet)	+	+	+	Info not available
Carbon Monoxide	+	+	+	Info not available
Carbon Tetrachloride	-	+	-	-
Carbonic Acid	+	+	+	Info not available
Chlorine (dry)	-	+	-	Info not available
Chlorine aqueous sat sol	Info not available	Info not available	Info not available	+
Chlorine liquid 100%	Info not available	Info not available	Info not available	-
Chlorine Water	-	+	-	Info not available
Chlorine, Anhydrous Liquid	-	+	-	Info not available
Chloroacetic Acid	-	+	-	Info not available
Chlorobenzene (Mono)	-	+	-	-
Chlorobromomethane	-	+	-	Info not available

Chemical□	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Chloroform	-	+	-	±
Chlorosulfonic Acid	-	+	-	Info not available
Chromic Acid	-	+	-	Info not available
Chromic Acid up to 40%	Info not available	Info not available	Info not available	+
Citric Acid	+	+	+	Info not available
Citric Acid sat sol	Info not available	Info not available	Info not available	+
Copper Cyanide	+	+	+	Info not available
Copper Sulfate	+	+	+	+
Cresols	-	+	-	Info not available
Cresylic Acid	-	+	-	Info not available
Cyclohexane	-	+	-	Info not available
Cyclohexanone	-	+	-	Info not available
D				
1,4-Dioxane	Info not available	Info not available	Info not available	±
Decahydronaphthalene (Decalin)	Info not available	Info not available	Info not available	±
Detergents	+	+	+	Info not available
Dibutyl Phthalate	Info not available	Info not available	Info not available	+
Dichlorobenzene	-	+	-	Info not available
Dichloroethane	-	+	-	Info not available
Diethyl Ether	-	+	-	+
Diethyl Malonate	Info not available	Info not available	Info not available	+
Diethylamine	+	+	+	Info not available
Diethylene Dioxide	Info not available	Info not available	Info not available	+
Diethylene Glycol	+	+	+	+

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Dimethyl Aniline	-	-	-	Info not available
Dimethyl Formamide	-	+	-	Info not available
Dimethyl sulfoxide (DM-SO) ≤ 5%	+	+	-	+
Dimethyl sulfoxide (DM-SO) 100%	-	+	-	Info not available
Diphenyl	-	-	-	Info not available
Diphenyl Oxide	-	-	-	Info not available
E				
EDTA	+	+	+	Info not available
Ethane	-	+	-	Info not available
Ethanolamine	+	+	+	Info not available
Ethyl Acetate	+	+	+	±
Ethyl Alcohol (absolute)	Info not available	Info not available	Info not available	+
Ethyl Alcohol 40%	Info not available	Info not available	Info not available	+
Ethyl Alcohol 96%	Info not available	Info not available	Info not available	+
Ethyl Benzoate	-	+	-	Info not available
Ethyl Chloride	-	+	-	-
Ethyl Ether	-	+	-	Info not available
Ethylene Bromide	-	+	-	Info not available
Ethylene Chloride	-	+	-	Info not available
Ethylene Chlorohydrin	-	+	-	Info not available
Ethylene Diamine	+	+	+	Info not available
Ethylene Dichloride	-	+	-	Info not available
Ethylene Glycol	+	+	+	+

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Ethylene Oxide	-	+	-	Info not available
Ethylene Oxide 100%	Info not available	Info not available	Info not available	±
F				
Fatty Acids	-	+	-	+
Ferric Chloride	+	+	+	Info not available
Ferric Nitrate	+	+	+	Info not available
Ferric Sulfate	+	+	+	Info not available
Ferrous Chloride	+	+	+	Info not available
Ferrous Sulfate	+	+	+	Info not available
Fluoboric Acid	Info not available	+	Info not available	Info not available
Fluorinated Hydrocarbon	Info not available	Info not available	Info not available	±
Fluorine	-	+	-	-
Flourine gas	Info not available	Info not available	Info not available	-
Fluosilicic Acid	Info not available	+	Info not available	Info not available
Formaldehyde 10%	Info not available	Info not available	Info not available	+
Formaidehyde 40%	Info not available	Info not available	Info not available	+
Formaldehyde 100%	+	+	+	Info not available
Formamide	Info not available	+	Info not available	Info not available
Formic Acid	+	+	+	Info not available
Formic Acid up to 100%	Info not available	Info not available	Info not available	+
Formic Acid up to 40%	Info not available	Info not available	Info not available	+
Freon 113	-	-	-	Info not available
Freon 12	-	-	-	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Freon 22	-	+	-	Info not available
Freon TF	-	-	-	Info not available
Fuel Oils	-	+	-	Info not available
Furan Resin	-	+	-	Info not available
Furfural	-	+	-	Info not available
G				
Gallic Acid	-	+	-	Info not available
Gasoline	-	+	-	Info not available
Gelatin	+	+	+	Info not available
Glucose	+	+	+	Info not available
Glue, P.V.A.	+	+	+	Info not available
Glycerin	+	+	+	Info not available
Glycolic Acid	+	+	+	Info not available
Guanidine Thiocyanate (GITC)	+	+	+	Info not available
H				
HEPES	+	+	+	Info not available
Heptane	-	+	-	Info not available
Hexane	-	+	-	+
Honey	+	+	+	Info not available
Hydraulic Oil (Petro)	-	+	-	Info not available
Hydraulic Oil (Synthetic)	+	+	+	Info not available
Hydrazine	+	+	+	Info not available
Hydrobromic Acid	-	+	-	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Hydrobromic Acid up to 100%	Info not available	Info not available	Info not available	+
Hydrochloric Acid	-	+	-	+
Hydrochloric Acid 5%	Info not available	Info not available	Info not available	+
Hydrochloric Acid 20%	Info not available	Info not available	Info not available	+
Hydrochloric Acid up to 40%	Info not available	Info not available	Info not available	+
Hydrocyanic Acid	-	+	-	Info not available
Hydrocyanic Acid (Gas 10%)	-	+	-	Info not available
Hydrofluoric Acid	-	+	-	Info not available
Hydrofluoric Acid 4%	Info not available	Info not available	Info not available	+
Hydrofluoric Acid 48%	Info not available	Info not available	Info not available	+
Hydrofluosilicic Acid	-	+	-	Info not available
Hydrogen Gas	-	+	-	Info not available
Hydrogen Peroxide	+	+	+	Info not available
Hydrogen Peroxide 30%	Info not available	Info not available	Info not available	+
Hydrogen Sulfide (aqua)	-	+	-	Info not available
Hydrogen Sulfide (dry)	-	+	-	Info not available
Hydroquinone	+	+	+	Info not available
I				
Isooctane	-	+	-	Info not available
Isopropyl Acetate	-	+	-	Info not available
Isopropyl Ether	-	+	-	Info not available
Isopropanol	Info not available	Info not available	Info not available	±

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Isopropyl Ether 100%	Info not available	Info not available	Info not available	+
J				
K				
Kerosene	-	+	-	Info not available
L				
Lacquer Thinners	-	+	-	Info not available
Lacquers	-	+	-	Info not available
Lactic Acid	+	+	+	Info not available
Lactic Acid 10%	Info not available	Info not available	Info not available	+
Lactic Acid up to 100%	Info not available	Info not available	Info not available	+
Lard	+	+	+	Info not available
Latex	+	+	+	Info not available
Lead Acetate	+	+	+	-
Lead Nitrate	+	+	+	Info not available
Lead Sulfamate	+	+	+	Info not available
Ligroin	-	+	-	Info not available
Linoleic Acid	+	+	+	Info not available
Lithium Chloride	+	+	+	Info not available
Lubricants	-	+	-	Info not available
M				
2-Mercaptoethanol	+	+	+	Info not available
2-Methoxyethanol	Info not available	Info not available	Info not available	+
Magnesium Chloride	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Magnesium Chloride sat sol	Info not available	Info not available	Info not available	+
Magnesium Hydroxide	+	+	+	Info not available
Magnesium Sulfate	+	+	+	Info not available
Maleic Acid	+	+	+	Info not available
Malic Acid	+	+	+	Info not available
Mercuric Chloride (di-lute)	+	+	+	Info not available
Mercuric Cyanide	+	+	+	Info not available
Mercurous Nitrate	+	+	+	Info not available
Mercury	+	+	+	+
Mercury Hydroxide	Info not available	Info not available	Info not available	+
Methane	-	+	-	Info not available
Methanol 100%	Info not available	Info not available	Info not available	+
Methoxyethyl Oleate	Info not available	Info not available	Info not available	+
Methyl Acetate	-	+	-	Info not available
Methyl Acrylate	-	+	-	Info not available
Methyl Alcohol	Info not available	Info not available	Info not available	+
Methyl Butyl Ketone	-	+	-	Info not available
Methyl Chloride	-	+	-	Info not available
Methyl Ethyl Ketone	-	+	-	Info not available
Methyl Isobutyl Ketone	-	+	-	Info not available
Methyl Methacrylate	-	+	-	Info not available
Methylamine	Info not available	+	Info not available	Info not available
Methylene Chloride	-	+	-	±

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Milk	+	+	+	Info not available
Monoethanolamine	+	+	+	Info not available
Morpholine	Info not available	+	Info not available	Info not available
Motor Oil	-	+	-	Info not available
N				
n-Butanol	Info not available	Info not available	Info not available	+
n-Octane	Info not available	Info not available	Info not available	+
Naphtha	-	+	-	Info not available
Naphthalene	-	+	-	Info not available
Natural Gas	+	+	+	Info not available
Nickel Chloride	+	+	+	Info not available
Nickel Nitrate	+	+	+	Info not available
Nickel Sulfate	+	+	+	Info not available
Nitric Acid	-	+	-	Info not available
Nitric Acid (Concentrated)	-	+	-	Info not available
Nitric Acid 40 - 50%	Info not available	Info not available	Info not available	±
Nitric Acid up to 30%	Info not available	Info not available	Info not available	+
Nitrobenzene	-	+	-	Info not available
Nitromethane	-	+	-	Info not available
Nitrous Acid	Info not available	+	Info not available	Info not available
O				
Oils: Castor	+	+	+	Info not available
Oils: Coconut	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Oils: Cod Liver	+	+	+	Info not available
Oils: Corn	+	+	+	Info not available
Oils: Cottonseed	+	+	+	Info not available
Oils: Creosote	-	+	-	Info not available
Oils: Diesel Fuel (20, 30, 40, 50)	-	+	-	Info not available
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	-	+	-	Info not available
Oils: Hydraulic Oil (Petro)	-	+	-	Info not available
Oils: Hydraulic Oil (Syn- thetic)	+	+	+	Info not available
Oils: Linseed	+	+	+	Info not available
Oils: Mineral	-	+	-	Info not available
Oils: Olive	-	+	-	Info not available
Oils: Peanut	+	+	+	Info not available
Oils: Pine	-	+	-	Info not available
Oils: Rapeseed	-	+	-	Info not available
Oils: Silicone	-	+	-	Info not available
Oils: Soybean	+	+	+	Info not available
Oils: Transformer	+	+	+	Info not available
Oils: Turbine	-	+	-	Info not available
Oleic Acid	-	+	-	Info not available
Oleum	-	+	-	Info not available
Oxalic Acid (cold)	+	+	+	Info not available
Oxalic Acid sat sol	Info not available	Info not available	Info not available	+
Ozone	+	+	+	+

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
P				
2-Propanol	Info not available	Info not available	Info not available	+
Palmitic Acid	-	+	-	Info not available
Pentane	-	+	-	Info not available
Perchloric Acid	-	+	-	Info not available
Perchloroethylene	-	+	-	-
Petrolatum	-	+	-	Info not available
Petroleum	-	+	-	Info not available
Petroleum Ether	Info not available	Info not available	Info not available	±
Phenol (10%)	-	+	-	Info not available
Phenol 90%	Info not available	Info not available	Info not available	-
Phosphoric Acid	Info not available	Info not available	Info not available	+
Phosphoric Acid 5%	Info not available	Info not available	Info not available	+
Phosphoric Acid 80%	-	+	-	Info not available
Phosphoric Acid 85%	Info not available	Info not available	Info not available	+
Phosphorus Trichloride	Info not available	Info not available	Info not available	Info not available
Photographic Solutions	+	+	+	Info not available
Phthalic Acid	+	+	+	Info not available
Phthalic Anhydride	Info not available	+	Info not available	Info not available
Picric Acid	-	+	-	Info not available
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F	Info not available	+	Info not available	Info not available
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F	Info not available	+	Info not available	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F	Info not available	+	Info not available	Info not available
Plating Solutions, Chromium Plating: Fluoride Bath 130°F	Info not available	+	Info not available	Info not available
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F	Info not available	-	Info not available	Info not available
Potassium Bicarbonate	+	+	+	Info not available
Potassium Bromide	+	+	+	Info not available
Potassium Carbonate	+	+	+	Info not available
Potassium Chlorate	+	+	+	Info not available
Potassium Chloride	+	+	+	Info not available
Potassium Chromate	+	+	+	Info not available
Potassium Cyanide Solutions	+	+	+	Info not available
Potassium Dichromate	+	+	+	Info not available
Potassium Ferricyanide	+	+	+	Info not available
Potassium Hydroxide (NaOH), < 1N	+	+	+	Info not available
Potassium Hydroxide (NaOH), > 1 N	-	+	-	Info not available
Potassium Hydroxide up to 50%	Info not available	Info not available	Info not available	+
Potassium Iodide	+	+	+	Info not available
Potassium Nitrate	+	+	+	Info not available
Potassium Permanganate	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Potassium Permanganate 30%	Info not available	Info not available	Info not available	+
Potassium Sulfate	+	+	+	Info not available
Potassium Sulfide	+	+	+	Info not available
Propane (liquefied)	-	+	-	Info not available
Propylene	-	+	-	Info not available
Propylene Glycol	+	+	+	+
Pyridine	-	+	-	-
Pyrogalllic Acid	Info not available	+	Info not available	Info not available
Q				
R				
Resorcinol	Info not available	+	Info not available	Info not available
Rosins	+	Info not available	+	Info not available
Rum	+	+	+	Info not available
S				
Salicylic Acid	Info not available	+	Info not available	Info not available
Salt Brine (NaCl saturated)	+	+	+	Info not available
Sea Water	+	+	+	Info not available
Silicone	-	+	-	Info not available
Silver Nitrate	Info not available	Info not available	Info not available	+
Soap Solutions	+	+	+	+
Sodium Acetate	+	+	+	Info not available
Sodium Benzoate	+	+	+	Info not available
Sodium Bicarbonate	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Sodium Bisulfate	+	+	+	Info not available
Sodium Bisulfite	+	+	+	Info not available
Sodium Borate (Borax)	+	+	+	Info not available
Sodium Carbonate	+	+	+	Info not available
Sodium Carbonate up to 50%	Info not available	Info not available	Info not available	+
Sodium Chlorate	+	+	+	Info not available
Sodium Chloride	+	+	+	Info not available
Sodium Cyanide	+	+	+	Info not available
Sodium Dichromate sat sol	Info not available	Info not available	Info not available	+
Sodium Ferrocyanide	+	+	+	Info not available
Sodium Fluoride	+	+	+	Info not available
Sodium Hydrosulfite	+	+	+	Info not available
Sodium Hydroxide, < 1 N	+	+	+	Info not available
Sodium Hydroxide, > 1 N	-	+	-	Info not available
Sodium Hydroxide 1%	Info not available	Info not available	Info not available	+
Sodium Hydroxide 10%-60%	Info not available	Info not available	Info not available	+
Sodium Hypochlorite	+	+	+	Info not available
Sodium Hypochlorite 15%	Info not available	Info not available	Info not available	+
Sodium Metaphosphate	+	+	+	Info not available
Sodium Metasilicate	+	+	+	Info not available
Sodium Nitrate	+	+	+	Info not available
Sodium Perborate	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Sodium Phosphate	+	+	+	Info not available
Sodium Polyphosphate	+	+	+	Info not available
Sodium Silicate	+	+	+	Info not available
Sodium Sulfate	+	+	+	Info not available
Sodium Sulfide	+	+	+	Info not available
Sodium Sulfite	+	+	+	Info not available
Sodium Tetraborate	+	+	+	Info not available
Sodium Thiosulfate	+	+	+	Info not available
Stannic Chloride	+	+	+	Info not available
Stannous Chloride	+	+	+	Info not available
Stearic Acid	+	+	+	+
Stoddard Solvent	-	+	-	Info not available
Styrene	-	+	-	Info not available
Sugar (Liquids)	+	+	+	Info not available
Sulfate (Liquors)	+	+	+	Info not available
Sulfur Chloride	-	+	-	Info not available
Sulfur Dioxide	+	+	+	Info not available
Sulfur Dioxide (dry)	+	+	+	Info not available
Sulfur Hexafluoride	+	+	+	Info not available
Sulfur Trioxide	+	+	+	Info not available
Sulfur Trioxide (dry)	+	+	+	Info not available
Sulfuric Acid	-	+	-	Info not available
Sulfuric Acid (cold concentrated)	-	+	-	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Sulfuric Acid (hot concentrated)	-	-	-	Info not available
Sulphuric Acid 10 - 30 %	Info not available	Info not available	Info not available	+
Sulphuric Acid 50%	Info not available	Info not available	Info not available	+
Sulphuric Acid 90%	Info not available	Info not available	Info not available	±
Sulphuric Acid 98%	Info not available	Info not available	Info not available	±
Sulphuric Acid up to 10%	Info not available	Info not available	Info not available	+
Sulfurous Acid	-	+	-	Info not available
T				
Tallow	Info not available	+	Info not available	Info not available
Tannic Acid	+	+	+	Info not available
Tanning Liquors	+	+	+	Info not available
Tartaric Acid	+	+	+	Info not available
Tartaric Acid sat sol	Info not available	Info not available	Info not available	+
Tetrachloroethane	-	+	-	Info not available
Tetrachloroethylene	-	+	-	Info not available
Tetrahydrofuran	-	+	-	±
Tin Salts	+	+	+	Info not available
Tincture of Iodine	Info not available	Info not available	Info not available	+
Toluene (Toluol)	-	+	-	±
Tributyl Citrate	Info not available	Info not available	Info not available	±
Trichloroacetic Acid	-	+	-	Info not available
Trichloroethane	-	+	-	Info not available
Trichloroethylene	-	+	-	-

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
Tricresyl Phosphate	-	+	-	Info not available
Triethylamine	Info not available	+	Info not available	Info not available
Triethylene Glycol	Info not available	Info not available	Info not available	+
Triton-100	+	+	+	Info not available
Tripropylene Glycol	Info not available	Info not available	Info not available	+
Trisodium Phosphate	Info not available	Info not available	Info not available	+
Turpentine	-	+	-	Info not available
U				
Urea	+	+	+	Info not available
Urea sat sol	Info not available	Info not available	Info not available	+
V				
Varnish	-	+	-	Info not available
Vegetable Juice	+	+	+	Info not available
Vinegar	+	+	+	Info not available
Vinyl Acetate	-	+	-	Info not available
W				
Water, Acid, Mine	+	+	+	Info not available
Water, Deionized	+	+	+	Info not available
Water, Distilled	+	+	+	Info not available
Water, Fresh	+	+	+	Info not available
Water, Salt	+	+	+	Info not available
Weed Killers	+	+	+	Info not available
Whiskey & Wines	+	+	+	Info not available
White Liquor (Pulp Mill)	+	+	+	Info not available

Chemical	Silicone Chips (LV, HV, CF)	PFE Chips (LV, HV, CF)	FORMULATOR	F.A.S.T. Tip
X				
Xylene	-	+	-	-
Y				
Z				
Zinc Chloride	+	+	+	Info not available
Zinc Chloride sat sol	Info not available	Info not available	Info not available	+
Zinc Sulfate	+	+	+	Info not available
Zinc Sulfate sat sol	Info not available	Info not available	Info not available	+