

**Michigan State University
Office of Radiation, Chemical & Biological Safety**

HAZARDOUS MATERIALS COMPATIBILITY CHART

H = heat
 F = fire
 G = innocuous & non-flammable gas
 T = toxic gas generation
 I = flammable gas generation
 E = explosion
 P = polymerization
 S = solubilization of toxic material
 U = may be hazardous but unknown

Slp #	Group Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	101	102	103	104	105	106	107			
1	Acid, Mineral, Non-Oxidizing																																												
2	Acid, Mineral, Oxidizing																																												
3	Acid, Organic		GH																																										
4	Alcohol / Glycol																																												
5	Aldehyde																																												
6	Amide																																												
7	Amine																																												
8	Azo / Diazo / Hydrazine																																												
9	Carbamate																																												
10	Caustic																																												
11	Cyanide																																												
12	Dithiocarbamate																																												
13	Ester																																												
14	Ether																																												
15	Fluoride, Inorganic																																												
16	Hydrocarbon, Aromatic																																												
17	Halogenated Organic																																												
18	Isocyanate																																												
19	Ketone																																												
20	Mercaptans / Organic Sulfide																																												
21	Metal, Alkali & Alkali Earth, Em																																												
22	Metal, Elm & Alloy / Powdr, Vpr, Spng																																												
23	Metal, Elm & Alloy / Sheet, Rod etc.																																												
24	Metal & Metal Cpd, Toxic																																												
25	Nitride																																												
26	Nitrite																																												
27	Nitro Compound, Organic																																												
28	Hydrocarbon, Aliphatic, Unsat.																																												
29	Hydrocarbon, Aliphatic, Sat.																																												
30	Peroxide & Hydroperoxide, Organic																																												
31	Phenol & Cresol																																												
32	Organophosphate, -thioate & -dithioate																																												
33	Sulfide, Inorganic																																												
34	Epoxide																																												
101	Combustible & Flammable, Misc																																												
102	Explosive																																												
103	Polymerizable Compound																																												
104	Oxidizing Agent, Strong																																												
105	Reducing Agent, Strong																																												
106	Water & Water Mixtures																																												
107	Water Reactive Substance																																												

EXTREMELY REACTIVE!!! Do Not Mix With Any Chemical or Waste Material