**Chemical Compatibility Chart**

|  |  |  |
| --- | --- | --- |
| **RGN** | **Reactivity Group** | **Incompatible With:** |
| **1** | **Acids, Mineral, Non-Oxidizing** | 4-15,17-26,28,30-34,101-107 |
| **2** | **Acids, Mineral, Oxidizing** | 3-34,101-103,105-107 |
| **3** | **Acids, Organic** | 2,4,5,7,8,10-12,15,18,21,22,24,265,33,34,102-105,107 |
| **4** | **Alcohols and Glycols** | 1-3,8,18,21,25,30,34,104,105,107 |
| **5** | **Aldehydes** | 1-3,7,8,10,12,21,25,27,28,30,33,34,104,105,107 |
| **6** | **Amides** | 1,2,21,24,104,105,107 |
| **7** | **Amines, Aliphatic and Aromatic** | 1-3,5,12,17,18,21,24,30,34,104,105,107 |
| **8** | **Azo Compounds, Diazo Compounds and Hydrazines** | 1-5,9,11-13,17-23,25,30-34,102-107 |
| **9** | **Carbamates** | 1,2,8,10,21,22,25,30,104,107 |
| **10** | **Caustics** | 1-3,5,9,13,17-19,21,22,24-27,32,34,102,103,107 |
| **11** | **Cyanides** | 1-3,5,9,13,17-19,21,22,24-27,32,34,102,103,107 |
| **12** | **Dithiocarbamates** | 1-3,8,17-19,21,25,30,34,103,104,107 |
| **13** | **Esters** | 1,2,8,10,21,25,102,104,105,107 |
| **14** | **Ethers** | 1,2,104,107 |
| **15** | **Fluorides, Inorganic** | 1-3,107 |
| **16** | **Hydrocarbons, Aromatic** | 2,104,107 |
| **17** | **Halogenated Organics** | 1,2,7,8,10,11,20-23,25,30,104,105,107 |
| **18** | **Isocyanates** | 1-4,7,8,10-12,20-22,25,30,31,33,104-107 |
| **19** | **Ketones** | 1,2,8,10,11,20,21,25,30,104,105,107 |
| **20** | **Mercaptons and Other Organic Sulfides** | 1,2,8,17-19,21,22,25,30,34,104,105,107 |
| **21** | **Metals, Alkali and Alkaline Earth Elemental** | 1-13,17-20,25-27,30-32,34,101-104,106,107 |
| **22** | **Metals, Other Elemental and Alloys as Powders, Vapors or Sponges** | 1-3,8-10,17,18,20,28,30,34,102-104,106,107 |
| **23** | **Metals, Other Elemental and Alloys as Sheets, Rods, Drops, Moldings** | 1,2,8,17,102-104,107 |
| **24** | **Metal and Metal Compounds, Toxic** | 1-3,6,7,10,26,30,34,102,103,106,107 |
| **25** | **Nitrides** | 1-5,8-13,17-21,26-27,30,31,34,101-104,106,107 |
| **26** | **Nitrites** | 1-3,10,21,24,25,30,104,105,107 |
| **27** | **Nitro Compounds, Organic** | 2,5,10,21,25,104,105,107 |
| **28** | **Hydrocarcons, Aliphatic, Unsaturated** | 1,2,5,22,30,104,107 |
| **29** | **Hydrocarbons, Aliphatic, Saturated** | 2,104,107 |
| **30** | **Peroxides and Hydroperoxides, Organic** | 1,2,4,5,7-9,11,12,17-22,24-26,28,31-34,101-105,107 |
| **31** | **Phenols and Cresols** | 1,2,8,18,21,25,30,34,102-105,107 |
| **32** | **Organophosphates, Phosphothioates, Phosphodithioates** | 1,2,8,10,21,30,34,104,105,107 |
| **33** | **Sulfides, Inorganic** | 1-3,5,8,18,30,34,102-104,106,107 |
| **34** | **Epoxides** | 1-5,7,8,10-12,20-22,24,25,30-33,102,104,105,107 |
| **101** | **Combustible and Flammable Materials, Misc.** | 1,2,21,25,30,102,104,105,107 |
| **102** | **Explosives** | 1-3,8,10,13,21-25,30,31,33,34,101,105-105,107 |
| **103** | **Polymerizable Compounds** | 1-3,8,10-12,21-25,30,31,33,102,104,105,107 |
| **104** | **Oxidizing Agents, Strong** | 1,3-9,11-14,16-23,25-34,101-103,105,107 |
| **105** | **Reducing Agents, Strong** | 1-8,12,13,17-20,26,27,30,31,32,34,101-104,106,107 |
| **106** | **Water and Mixtures Containing Water** | 1,2,8,18,21,22,24,25,33,105,107 |
| **107** | **Water Reactive Substances** | ALL! |

I. Acids, Mineral, Non-Oxidizing

4. Alcohols and Glycols   
5. Aldehydes   
6. Amides   
7. Amines, Aliphatic and Aromatic   
8. Azo Compounds, Diazo Compounds, and Hydrates   
9. Carbamates   
10. Caustics   
11. Cyanides   
12. Dithiocarbamates   
13. Esters   
14. Ethers   
15. Fluorides, Inorganic   
17. Halogentated   
18. Isocyanates   
19. Ketones   
20. Mercaptons and Other Organic Sulfides   
21. Metals, Alkali and Alkaline Earth Metal   
22. Metals, Other Elemental and Alloys as Powders, Vapors or Sponges   
23. Metals, Other Elemental and Alloys as Sheets, Rods, Drops, Moldings   
24. Metal and Metal Compounds, Toxic   
25. Nitrides   
26. Nitrites   
28. Hydrocarbons, Aliphatic, Unsaturated   
30. Peroxides and Hydrocarbons   
31. Phenols and Cresols   
32. Organophosphates, Phosphothioates, Phosphodithioates   
33. Sulfides, Inorganic   
34. Epoxides   
101. Combustible and Flammable Materials, Misc.   
102. Explosives   
103. Polymerizable Compounds   
104. Oxidizing Agents, Strong   
105. Reducing Agents, Strong   
106. Water and Mixtures Containing Water   
107. Water Reactive Substances

II. Acids, Mineral, Oxidizing

3. Acids, Organics   
4. Alcohols and Glycols   
5. Aldehydes   
6. Amides   
7. Amines, Aliphatic and Aromatic   
8. Azo Compounds, Diazo Compounds, and Hydrates   
9. Carbamates   
10. Caustics   
11. Cyanides   
12. Dithiocarbamates   
13. Esters   
14. Ethers   
15. Fluorides, Inorganic   
16. Hydrocarbons, Aromatic   
17. Halogentated   
18. Isocyanates   
19. Ketones   
20. Mercaptons and Other Organic Sulfides   
21. Metals, Alkali and Alkaline Earth Metal   
22. Metals, Other Elemental and Alloys as Powders, Vapors or Sponges   
23. Metals, Other Elemental and Alloys as Sheets, Rods, Drops, Moldings   
24. Metal and Metal Compounds, Toxic   
25. Nitrides   
26. Nitrites   
27. Nitro Compounds, Organic   
28. Hydrocarbons, Aliphatic, Unsaturated   
29. Hydrocarbons, Aliphatic, Saturated   
30. Peroxides and Hydrocarbons   
31. Phenols and Cresols   
32. Organophosphates, Phosphothioates, Phosphodithioates   
33. Sulfides, Inorganic   
34. Epoxides   
101. Combustible and Flammable Materials, Misc.   
102. Explosives   
103. Polymerizable Compounds   
105. Reducing Agents, Strong   
106. Water and Mixtures Containing Water   
107. Water Reactive Substances

1. Alcohols and Glycols

1. Acids, Mineral, Nonoxidizing   
2. Acids, Mineral, Oxidizing   
3. Acids, Organic   
8. Azo Compounds, Diazo Compounds and Hydrazines   
18. Isocyanates   
21. Metals, Alkali and Alkaline Earth Metals   
25. Nitrides   
30. Peroxides and Hydroperoxides, Organic   
34. Epoxides   
104. Oxidizing Agents, Strong   
105. Reducing Agents, Strong   
107. Water Reactive Substances

1. Aldehydes

1. Acids, Mineral, Nonoxidizing   
2. Acids, Mineral, Oxidizing   
3. Acids, Organics   
7. Amines, Aliphatic and Aromatic   
8. Azo Compounds, Diazo Compounds, and Hydrates   
10. Caustics   
12. Dithiocarbamates   
21. Metals, Alkali and Alkaline Earth Metal   
25. Nitrides   
27. Nitro Compounds, Organic   
28. Hydrocarbons, Aliphatic, Unsaturated   
30. Peroxides and Hydrocarbons   
33. Sulfides, Inorganic   
34. Epoxides   
104. Oxidizing Agents, Strong   
105. Reducing Agents, Strong   
107. Water Reactive Substances

1. Amides

1. Acids, Mineral, Nonoxidizing   
2. Acids, Mineral, Oxidizing   
21. Metals, Alkali and Alkaline Earth Metal   
24. Metal and Metal Compounds, Toxic   
104. Oxidizing Agents, Strong   
105. Reducing Agents, Strong   
107. Water Reactive Substances

1. Amines, Aliphatic and Aromatic

1. Acids, Mineral, Nonoxidizing   
2. Acids, Mineral, Oxidizing   
3. Acids, Organics   
5. Aldehydes   
12. Dithiocarbamates   
17. Halogentated   
18. Isocyanates   
21. Metals, Alkali and Alkaline Earth Metal   
24. Metal and Metal Compounds, Toxic   
30. Peroxides and Hydrocarbons   
34. Epoxides   
104. Oxidizing Agents, Strong   
105. Reducing Agents, Strong   
107. Water Reactive Substances