**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