**The mixing of Group A materials with Group B materials may have the potential consequences noted.**

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| **Group 1-A** | **Group 1-B** |
| Acetylene sludge | Acid sludge |
| Alkaline caustic liquids | Acid and water |
| Alkaline cleaner | Battery acid |
| Alkaline corrosive liquids | Chemical cleaners |
| Alkaline corrosive battery fluid | Electrolyte, acid |
| Caustic wastewater | Etching acid liquid or solvent |
| Lime sludge and other corrosive alkalies | Pickling liquor & other corrosive acids |
| Lime wastewater | Spent acid |
| Lime and water | Spent mixed acid |
| Spent caustic | Spent sulfuric acid |

**Potential consequences: Heat generation; violent reaction**

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| **Group 2-A** | **Group 2-B** |
| Aluminum | Any waste in Group 1-A or 1-B |
| Beryllium |  |
| Calcium |  |
| Lithium |  |
| Magnesium |  |
| Potassium |  |
| Sodium |  |
| Zinc powder |  |
| Other reactive metals and metal hydroxides |  |

**Potential consequences: Fire or explosion; generation of flammable hydrogen gas**

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| **Group 3-A** | **Group 3-B** |
| Alcohols | Any concentrated waste in Groups1A or 1B |
| Water | Calcium |
|  | Lithium |
|  | Metal hydrides |
|  | Potassium |
|  | SO2Cl2, SOCl2, PCl3, CH3SiCl3 |
|  | Other water-reactive waste |

**Potential consequences: Fire, explosion, or heat generation; generation of**

**flammable or toxic gases**

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| **Group 4-A** | **Group 4-B** |
| Alcohols | Concentrated Group 1-A or 1-B wastes |
| Aldehydes | Group 2-A wastes |
| Halogenated hydrocarbons |  |
| Nitrated hydrocarbons |  |
| Unsaturated hydrocarbons |  |
| Other reactive organic compounds & solvents |  |

**Potential consequences: Fire, explosion, or violent reaction**

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| **Group 5-A** | **Group 5-B** |
| Spent cyanide and sulfide solutions | Group 1-B wastes |

**Potential consequences: Generation of toxic hydrogen cyanide or hydrogen sulfide gas**

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| **Group 6-A** | **Group 6-B** |
| Chlorates | Acetic acid and other organic acids |
| Chlorine | Concentrated mineral acids |
| Chlorites | Group 2-A wastes |
| Chromic acid | Group 5-A wastes |
| Hypochlorites | Other flammable and combustible wastes |
| Nitrates  Nitric acid, fuming  Perchlorates |  |
| Permanganates |  |
| Peroxides |  |
| Other strong oxidizers |  |

**Potential consequences: Fire, explosion, or violent reaction**