

ATTACHMENT IV-2

REAGENT LIST

## Commonly Used Stabilization Reagents

### Pozzolan Materials

Cement  
Cement Kiln Dust  
Flyash (Class F & C)  
Lime  
Lime Kiln Dust  
Sodium Silicate  
Zeolites (Aluminum Silicates)  
Metabond  
Enviroblend  
Envirobond

### Oxidizers/Reducers

Aluminum Hydroxide Chloride  
Ammonium Phosphate  
Ammonium Sulfate  
Calcium Hypochlorite  
Copper Sulfate  
Ferrous Ammonium Sulfate  
Ferrous Nitrate  
FeSO<sub>4</sub> (Ferrous Sulfate)  
Green Phosphate  
Hydrogen Peroxide  
Nonoxinol-9  
Potassium Permanganate  
Potassium Phosphate (Monobasic)  
Sodium Hydrosulfite  
Sodium Hypochlorite  
Sodium Metabisulfite  
Sodium Percarbonate  
Sodium Poly Phosphate  
Thio-red  
Trisodium Phosphate

### pH Adjustment

Ammonium Hydroxide  
Calcium Sulfate (Anhydrous)  
Sodium Hydroxide  
Sulfuric Acid

### Precipitation/Flocculants

Ammonium Sulfate  
Anionic-Cationic Flocculants  
Calcium Chloride  
Calcium Sulfate  
Cellulose Xanthate  
Colloidal Silicon Dioxide  
Ferric Oxide  
Ferrous Oxide  
Ferrous Sulfate Heptahydrate  
Sodium Aluminate  
Sodium Carbonate  
Starch Xanthate  
Calcium Polysulfide  
Sodium Dimethyldithiocarbamate

### Absorbents/Binding Agents

Carbon  
Chembond (Modified Clay)  
Liqui-Set (Modified Clay)  
Liquibond (Modified Clay)

### Wetting Agents/Dispersants/Chelating Agents/Solvents (to enhance mixing and reactions)

Methanol  
Water

### Other

Aluminum Chips  
Brass Chips  
Sand  
Iron Chips  
Salt Water  
Sulfur

**Stabilization Reagents**  
**Special Additions/Other Usages**

Citric Acid	CAS 77-92-9
For: Chelating Agent	
Ferric Chloride	CAS 7705-08-0
For: Reducing Agent	
Sodium Meta Silicate	CAS 6834-92-0
For: Volume reduction and metal fixation	
Aluminum Oxide	CAS 1344-28-1
For: Cement strengthening and metal fixation	
Cupric Nitrate	CAS 3251-23-8
For: Oxidizer Catalyst	
Copper Bromide	CAS 7789-45-9
For: Oxidizer Catalyst	
Copper Sulfate	CAS 7758-98-7
For: Oxidizer Catalyst	
Sodium Peroxide	CAS 1313-60-6
For: Oxidizer	
Calcium Peroxide	CAS 1305-79-9
For: Oxidizer	
Sodium Persulfate	CAS 7775-27-1
For: Oxidizer	
Various Surfactant Mixture/Blends	No CAS Available:
For: Emulsification/Polarity Adjustment	Manufacture Proprietary
Methanol	CAS 67-56-1
For: Polarity adjustment	
Isopropyl Alcohol	CAS 67-63-0
For: Polarity adjustment	