

**Environmental Protection Agency****Pt. 414, App. B**

Dimethoxybenzaldehyde/Hydroquinone dimethyl ether + Hydrogen cyanide, hydrolysis

Benzyl cyanide/Benzyl chloride + Sodium cyanide

Coal tar products/Distillation of coal tar condensate

Cyanoacetic acid/Chloroacetic acid + sodium cyanide

Cyanuric chloride/Catalyzed trimerization of cyanogen chloride

Vat dyes, Indigo paste as Vat Blue 1/Sodamide + potassium N-Phenylglycine, fused with caustic/N-phenylglycine + Aniline + Formaldehyde + Sodium bisulfite, sodium cyanide, hydrolysis with potassium hydroxide

Disperse dyes, Azo and Vat

Ethylenediamine tetraacetic acid/Ethylenediamine + Formaldehyde + Sodium cyanide

Diethylenetriamine pentaacetic acid/Diethylenetriamine + Formaldehyde + Sodium cyanide

N,N'-bis(o-Acetamidophenyl)ethylenediamine, ferric complex/ Salicylaldehyde + Ethylenediamine + Hydrogen cyanide, hydrolysis to amide

Diethylenetriamine pentaacetic acid, pentasodium salt/Diethylenetriamine pentaacetic acid + caustic

Ethylenediamine tetraacetic acid, metal salts/Ethylenediamine tetraacetic acid + metal bases

Hydroxyethyl ethylenediamine triacetic acid, trisodium salt/ Ethylenediamine + Ethylene oxide + Formaldehyde + Sodium cyanide, hydrolysis

5,5-Dimethyl hyantoin/Acetone + ammonia + carbon dioxide + hydrogen cyanide

Hydrogen cyanide/By-product of acrylonitrile by ammoxidation of propylene

Iminodiacetic acid/Hexamethylene tetraamine + Hydrogen cyanide, hydrolysis of iminoacetonitrile salt

Methionine/Acrolein + Methyl mercaptan, with hydrogen cyanide and ammonium carbonate

Nitrilotriacetic acid/Hexamethylene tetraamine + Hydrogen cyanide, hydrolysis of nitrilotriacetonitrile salt

Picolines, mixed/Condensation of acetaldehyde + formaldehyde + ammonia

Organic pigments, Azo/Diazotization of aniline cogener, coupling to B-Naphthol

Pyrimidines, 2-Isopropyl-4-methoxy-/Isobutyronitrile + methanol, ammonia and methylacetoacetate (ring closure)

Pyridine (synthetic)/Condensation of acetaldehyde + ammonia + formaldehyde

Cyanopyridine/Ammoxidation of picoline

Sarcosine (N-Methyl glycine), sodium salt/Hexamethylene tetraamine + Sodium cyanide, hydrolysis

Thiophene acetic acid/Chloromethylation (Hydrogen chloride + Formaldehyde) + Sodium cyanide, hydrolysis

Tris(anilino)S-triazine/Cyanuric chloride + Aniline and its congeners

Triethylorthoformate/Ethanol + Hydrogen cyanide

Trimethylorthoformate/Methanol + Hydrogen cyanide

[52 FR 42568, Nov. 5, 1987, as amended at 54 FR 27352, June 29, 1989; 55 FR 26692, June 29, 1990; 57 FR 41844, Sept. 11, 1992]

**APPENDIX B TO PART 414—COMPLEXED METAL-BEARING WASTE STREAMS**

*Chromium*

Azo dye intermediates/Substituted diazonium salts + coupling compounds

Vat dyes

Acid dyes

Azo dyes, metallized/Azo dye + metal acetate

Acid dyes, Azo (including metallized)

Organic pigments, miscellaneous lakes and toners

*Copper*

Disperse dyes

Acid dyes

Direct dyes

Vat dyes

Sulfur dyes

Disperse dye coupler/N-substitution of 2-Amino-4-acetamidoanisole

Azo dyes, metallized/Azo dye + metal acetate

Direct dyes, Azo

Disperse dyes, Azo and Vat

Organic pigment Green 7/Copper phthalocyanine

Organic pigments

Organic pigments/Phthalocyanine pigments

Organic pigments/Copper phthalocyanine (Blue Crude)

Organic pigments, miscellaneous lakes and toners

*Lead*

Organic pigments, Quinacridines

Organic pigments, Thioindigoids

Tetraethyl lead/Alkyl halide + sodium-lead alloy

Tetramethyl lead/Alkyl halide + sodium-lead alloy

*Nickel*

Azo dyes, metallized/Azo dye + metal acetate

*Zinc*

Organic pigments/Azo pigments by diazotization and coupling

[52 FR 42568, Nov. 5, 1987, as amended at 54 FR 27352, June 29, 1989; 57 FR 41844, Sept. 11, 1992]

**PART 415—INORGANIC CHEMICALS MANUFACTURING POINT SOURCE CATEGORY**

**Subpart A—Aluminum Chloride Production Subcategory**

Sec.

- 415.01 Compliance dates for pretreatment standards for existing sources.
- 415.10 Applicability; description of the aluminum chloride production subcategory.
- 415.11 Specialized definitions. [Reserved]
- 415.12–415.13 [Reserved]
- 415.14 Pretreatment standards for existing sources (PSES).
- 415.15 [Reserved]

**Subpart B—Aluminum Sulfate Production Subcategory**

- 415.20 Applicability; description of the aluminum sulfate production subcategory.
- 415.21 Specialized definitions. [Reserved]
- 415.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 415.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).
- 415.24 Pretreatment standards for existing sources (PSES).
- 415.25 New source performance standards (NSPS).
- 415.26 Pretreatment standards for new sources (PSNS).

**Subpart C—Calcium Carbide Production Subcategory**

- 415.30 Applicability; description of the calcium carbide production subcategory.
- 415.31 Specialized definitions. [Reserved]
- 415.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 415.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).
- 415.34 [Reserved]
- 415.35 New source performance standards (NSPS).
- 415.36 Pretreatment standards for new sources (PSNS).

**Subpart D—Calcium Chloride Production Subcategory**

- 415.40 Applicability; description of the calcium chloride production subcategory.
- 415.41 Specialized definitions.
- 415.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 415.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).
- 415.44 [Reserved]
- 415.45 New source performance standards (NSPS).
- 415.46 Pretreatment standards for new sources (PSNS).

**Subpart E—Calcium Oxide Production Subcategory**

- 415.50 Applicability; description of the calcium oxide production subcategory.
- 415.51 Specialized definitions. [Reserved]
- 415.52 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 415.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).
- 415.54 [Reserved]
- 415.55 New source performance standards (NSPS).
- 415.56 Pretreatment standards for new sources (PSNS).

**Subpart F—Chlor-alkali Subcategory (Chlorine and Sodium or Potassium Hydroxide Production)**

- 415.60 Applicability; description of the chlorine and sodium or potassium hydroxide production subcategory.
- 415.61 Specialized definitions.
- 415.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).
- 415.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).
- 415.64 Pretreatment standards for existing sources (PSES).
- 415.65 New source performance standards (NSPS).