

**Environmental Protection Agency**

**§ 421.296**

**PSSES FOR THE SECONDARY TIN SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day                                   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tin metal produced |                             |
| Lead .....                      | 7.012   | 3.256                       |
| Cyanide (total) .....           | 5.009   | 2.004                       |
| Fluoride .....                  | 876.500   | 498.400                     |
| Tin .....                       | 9.517   | 5.510                       |

**§ 421.296 Pretreatment standards for new sources.**

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary tin process wastewater introduced into a POTW shall not exceed the following values:

(a) Tin smelter SO<sub>2</sub> scrubber.

**PSNS FOR THE SECONDARY TIN SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day  | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of crude tapped tin produced |                             |
| Arsenic .....                   | 12.790   | 5.703                       |
| Lead .....                      | 2.575  | 1.196                       |
| Iron .....                      | 11.040   | 5.611                       |
| Tin .....                       | 3.495  | 2.024                       |

(b) Dealuminizing Rinse.

**PSNS FOR THE SECONDARY TIN SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day  | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of dealuminized scrap produced |                             |
| Lead .....                      | 0.010  | 0.005                       |
| Cyanide (total) .....           | 0.007  | 0.003                       |
| Fluoride .....                  | 1.225  | 0.697                       |
| Tin .....                       | 0.013  | 0.008                       |

(c) Tin mud acid neutralization filtrate.

**PSNS FOR THE SECONDARY TIN SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of neutralized dewatered tin mud produced |                             |
| Lead .....                      | 1.413   | 0.656                       |
| Cyanide (total) .....           | 1.009   | 0.404                       |
| Fluoride .....                  | 176.600   | 100.400                     |
| Tin .....                       | 1.918   | 1.110                       |

(d) Tin hydroxide wash.

**PSNS FOR THE SECONDARY TIN SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day                                     | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tin hydroxide washed |                             |
| Lead .....                      | 3.347   | 1.554                       |
| Cyanide (total) .....           | 2.391   | 0.956                       |
| Fluoride .....                  | 418.400   | 237.900                     |
| Tin .....                       | 4.542   | 2.630                       |

(e) Spent electrowinning solution from new scrap.

**PSNS FOR THE SECONDARY TIN SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day                                     | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of cathode tin produced |                             |
| Lead .....                      | 4.704   | 2.184                       |
| Cyanide (total) .....           | 3.360   | 1.344                       |
| Fluoride .....                  | 588.000   | 334.300                     |
| Tin .....                       | 6.384   | 3.696                       |

(f) Spent electrowinning solution from municipal solid waste.

**PSNS FOR THE SECONDARY TIN SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of MSW scrap used as raw material |                             |
| Lead .....                      | 0.033   | 0.015                       |
| Cyanide (total) .....           | 0.024   | 0.010                       |
| Fluoride .....                  | 4.165   | 2.368                       |
| Tin .....                       | 0.045   | 0.026                       |

(g) Tin hydroxide supernatant from scrap.

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PNNS FOR THE SECONDARY TIN SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tin metal recovered from scrap |                             |
| Lead .....                      | 15.580  | 7.233                       |
| Cyanide (total) .....           | 11.130  | 4.451                       |
| Fluoride .....                  | 1,947.000   | 1,107.000                   |
| Tin .....                       | 21.140  | 12.240                      |

(h) Tin hydroxide supernatant from plating solutions and luges.

PNNS FOR THE SECONDARY TIN SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tin metal recovered from plating solutions and sludges |                             |
| Lead .....                      | 32.20   | 14.95                       |
| Cyanide (total) .....           | 23.00   | 9.20                        |
| Fluoride .....                  | 4,025.00  | 2,289.00                    |
| Tin .....                       | 43.70   | 25.30                       |

(i) Tin hydroxide filtrate.

PNNS FOR THE SECONDARY TIN SUBCATEGORY

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|                                 | mg/kg (pounds per million pounds) of tin metal produced |                             |
| Lead .....                      | 7.012   | 3.256                       |
| Cyanide (total) .....           | 5.009   | 2.004                       |
| Fluoride .....                  | 876.500   | 498.400                     |
| Tin .....                       | 9.517   | 5.510                       |

§ 421.297 [Reserved]

**Subpart AB—Primary and Secondary Titanium Subcategory**

SOURCE: 50 FR 38380, Sept. 20, 1985, unless otherwise noted.

**§ 421.300 Applicability: Description of the primary and secondary titanium subcategory.**

The provisions of this subpart are applicable to discharges resulting from the production of titanium at primary and secondary titanium facilities. Facilities which only practice vacuum distillation for sponge purification and which do not practice electrolytic re-

covery of magnesium are exempt from regulations. All other primary and secondary titanium facilities are covered by these regulations.

**§ 421.301 Specialized definitions.**

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

**§ 421.302 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Chlorination off-gas wet air pollution control.

**BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of TiCl <sub>4</sub> produced |                             |
| Chromium (total) .....          | 0.412   | 0.168                       |
| Lead .....                      | 0.393   | 0.187                       |
| Nickel .....                    | 1.797   | 1.189                       |
| Titanium .....                  | 0.880   | 0.384                       |
| Oil and grease .....            | 18.720  | 11.230                      |
| Total suspended solids .....    | 38.380  | 18.250                      |
| pH .....                        | ( <sup>1</sup> )  | ( <sup>1</sup> )            |

AA<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(b) Chlorination area-vent wet air pollution control.

**BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of TiCl <sub>4</sub> produced |                             |
| Chromium (total) .....          | 0.412   | 0.168                       |
| Chromium (total) .....          | 0.458   | 0.187                       |
| Lead .....                      | 0.437   | 0.208                       |
| Nickel .....                    | 1.997   | 1.321                       |
| Titanium .....                  | 0.978   | 0.426                       |
| Oil and grease .....            | 20.800  | 12.480                      |
| Total suspended solids .....    | 42.640  | 20.280                      |