

**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

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

§ 421.297 [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