

**Environmental Protection Agency**

**§ 417.162**

Pollutant or pollutant property	Pretreatment standard
Surfactants .....	Do.
Oil and grease .....	Do.
pH .....	Do.

stirrer set at 200 to 500 rpm may be used.

[39 FR 13372, Apr. 12, 1974, as amended at 40 FR 27455, June 30, 1975]

[40 FR 27454, June 30, 1975, as amended at 60 FR 33955, June 29, 1995]

**Subpart P—Manufacture of Liquid Detergents Subcategory**

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

**§ 417.160 Applicability; description of the manufacture of liquid detergents subcategory.**

Except as provided in §§ 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 control technology currently available (BPT):

The provisions of this subpart are applicable to discharges resulting from all operations associated with the manufacture of liquid detergents, commencing with the blending of ingredients, to and including bottling or packaging finished products.

(a) For normal liquid detergent operations the following values pertain:

**§ 417.161 Specialized definitions.**

Effluent characteristic	Effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed—
	Metric units (kilograms per 1,000 kg of anhydrous product)	
BOD5 .....	0.60	0.20
COD .....	1.80	.60
TSS .....	0.015	.005
Surfactants .....	0.39	.13
Oil and grease .....	0.015	.005
pH .....	( <sup>1</sup> )	( <sup>1</sup> )
	English units (pounds per 1,000 lb of anhydrous product)	
BOD5 .....	0.60	0.20
COD .....	1.80	.60
TSS .....	0.015	.005
Surfactants .....	0.39	.13
Oil and grease .....	0.015	.005
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *anhydrous product* shall mean the theoretical product that would result if all water were removed from the actual product.

(c) The term *surfactant* shall mean those methylene blue active substances amenable to measurement by the method described in "Methods for Chemical Analysis of Water and Wastes," 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 131.

(d) The term *normal liquid detergent operations* shall mean all such operations except those defined as fast turnaround operation of automated fill lines.

(e) The term *fast turnaround operation of automated fill lines* shall mean an operation involving more than 8 changes of formulation in a 30 consecutive day period that are of such degree and type as to require thorough purging and washing of the fill line to maintain minimal product quality.

(f) The term BOD7 shall mean the biochemical oxygen demand as determined by incubation at 20 degrees C for a period of 7 days using an acclimated seed. Agitation employing a magnetic

<sup>1</sup> Within the range 6.0 to 9.0.

(b) For fast turnaround operation of automated fill lines, the following values pertain: the maximum for any one day when the number of turnarounds exceeds eight in any thirty consecutive day period shall be the sum of the appropriate values below and that from paragraph (a) of this section; and the average of daily values for thirty consecutive days shall be the values shown below multiplied by the number of

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turnarounds in excess of eight and prorated to thirty days plus the appropriate value from paragraph (a) of this section.

Effluent characteristic	Effluent limitations	
	Metric units (kilograms per 1,000 kg of anhydrous product)	
BOD5 .....	0.05.	
COD .....	0.15.	
TSS .....	0.002.	
Surfactants .....	0.04.	
Oil and grease .....	0.002.	
pH .....	Within the range 6.0 to 9.0.	

  

Effluent characteristic	Effluent limitations	
	English units (pounds per 1,000 lb of anhydrous product)	
BOD5 .....	0.05.	
COD .....	0.15.	
TSS .....	0.002.	
Surfactants .....	0.04.	
Oil and grease .....	0.002.	
pH .....	Within the range 6.0 to 9.0.	

[39 FR 13372, Apr. 12, 1974; 39 FR 17841, May 21, 1974, as amended at 60 FR 33955, June 29, 1995]

**§ 417.163 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.**

The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable:

(a) For normal liquid detergent operations the following values pertain:

Effluent characteristic	Effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed—
	Metric units (kilograms per 1,000 kg of anhydrous product)	
BOD5 .....	0.10	0.05
COD .....	0.44	.22
TSS .....	0.01	.005
Surfactants .....	0.10	.05
Oil and grease .....	0.01	.005
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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Effluent characteristic	Effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed—
	English units (pounds per 1,000 lb of anhydrous product)	
BOD5 .....	0.10	0.05
COD .....	0.44	.22
TSS .....	0.01	.005
Surfactants .....	0.10	.05
Oil and grease .....	0.01	.005
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range 6.0 to 9.0.

(b) For fast turnaround operation of automated fill lines, the following values pertain: The maximum for any one day when the number of turnarounds exceeds eight in any thirty consecutive day period shall be the sum of the appropriate value below and that from paragraph (a) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of eight and prorated to thirty days plus the appropriate value from paragraph (a) of this section.

Effluent characteristic	Effluent limitations	
	Metric units (kilograms per 1,000 kg of anhydrous product)	
BOD5 .....	0.02.	
COD .....	0.07.	
TSS .....	0.002.	
Surfactants .....	0.02.	
Oil and grease .....	0.002.	
pH .....	Within the range 6.0 to 9.0.	

  

Effluent characteristic	Effluent limitations	
	English units (pounds per 1,000 lb of anhydrous product)	
BOD5 .....	0.02.	
COD .....	0.07.	
TSS .....	0.002.	
Surfactants .....	0.02.	
Oil and grease .....	0.002.	
pH .....	Within the range 6.0 to 9.0.	

§ 417.164 [Reserved]

**§ 417.165 Standards of performance for new sources.**

The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart: