Waste Profile Datasheet

Ecoworks Tablets with SR-30 Soluble Support Material

Discharge of wastewater is subject to varying regulatory requirements. In some countries, discharge from a support cleaning system into the public sewer system may be subject to an authorization/discharge permit. You should check with local authorities whether restrictions apply to the discharge of wastewater generated by the support cleaning system and, where necessary, apply for such permit. Values provided below represent a conservative assessment of the daily discharge values with Ecoworks Tablets when used as directed.

Characteristics	Value	Units	Daily Volumes[1]	Units
Annual discharge volume (approximate)	1100 (290)	Liters (Gallons)	7.5 (2)	Liters (Gallons)
Discharge Temperature	75	° C		
pH	9.2			
Discharge per cycle	7.5 (2)	Liters (Gallons)		
Metals Content (average)				
Aluminum	120	µg/l	0.90	mg
Barium	49.2	µg/l	0.37	mg
Calcium	36.4	mg/l	273	mg
Chromium	5.1	µg/l	0.04	mg
Copper	36.9	µg/l	0.28	mg
Iron	306	µg/l	2.30	mg
Nickel	5.8	µg/l	0.04	mg
Manganese	47.4	µg/l	0.35	mg
Potassium	5.4	mg/l	40.50	mg
Sodium	2930	mg/l	22.0	grams
Zinc	20.6	µg/l	0.15	mg
Organic Compounds detected				
Phenol	47.3	µg/l	0.35	mg
Other Characteristics (average)				
Alkalinity, Total as CaCO3	5940	mg/l	44.0	grams
Total Dissolved Solids	13200	mg/l	99.0	grams
Total Suspended Solids	408	mg/l	3.1	grams
BOD (Biological Oxygen Demand) - 5 day	434	mg/l	3.3	grams

Characteristics	Value	Units	Daily Volumes[1]	Units
Chemical Oxygen Demand COD)	13700	mg/l	102.70	grams
Total Phosphorous	5.9	mg/l	0.04	grams
Total Kjeldahl Nitrogen	143	mg/l	1.07	grams
Nitrate Plus Nitrite	0.22	mg/l	1.60	mg
Cyanide	0.087	mg/l	0.65	mg
Aquatic Toxicity LD 50 (fish	> 750 mg/l concentration		NA	

Non-Detected Metals	MDL (Method Detection Limit)	Units
Antimony	5	µg/l
Arsenic	5	µg/l
Beryllium	2.5	µg/l
Cadmium	1.1	µg/l
Cobalt	5	µg/l
Lead	1.5	µg/l
Mercury	0.1	µg/l
Silver	5	µg/l
Thallium	7.5	µg/l
Vanadium	7.5	µg/l

Waste water discharge was analyzed after removing approximately 44 cc's (2.7 cu. in.) of support material in a 3.75 liter (1 gallon) support cleaning system with the entire contents of one Stratasys Ecoworks Tablets foil bag and after a 3.75 liter water-only rinse. Larger systems with the same concentration of Ecoworks Tablets and a clean water rinse cycle of the same volume should expect similar effluent results. Under normal conditions, a user will average 16.4 cc's (1 cu. in.) of support material per part created.

[1]Typical user – assumes one cycle per day at 7.5 liters (2 gallons) per cycle (wash and rinse volumes combined). Daily volumes for users with larger support cleaning systems could be higher.