



Waste Profile Datasheet

Ecoworks Cleaning Agent 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 Cleaning Agent when used as directed.

Characteristics	Value	Units	Daily Volumes ¹	Units
Annual discharge volume (approximate)	3000 (800)	Liters (Gallons)	15 (4)	Liters (Gallons)
Discharge Temperature	75	° C		
pH	6.5 – 10			
Discharge per cycle	7.5 – 15 (2-4)	Liters (Gallons)		
Metals Content (average)				
Barium	51.9	µg/l	0.78	mg
Calcium	10.0	mg/l	157.50	mg
Chromium	29.3	µg/l	0.44	mg
Copper	22.4	µg/l	0.34	mg
Iron	248	µg/l	3.72	mg
Nickel	30.5	µg/l	0.46	mg
Magnesium	6.15	mg/l	92.25	mg
Manganese	17.8	µg/l	0.27	mg
Potassium	3.1	mg/l	46.5	mg
Sodium	2440	mg/l	36.6	grams
Zinc	75.9	µg/l	1.14	mg
Organic Compounds detected				
Acetone	153	µg/l	2.3	mg
Phenol	590	µg/l	8.85	mg
Other Characteristics (average)				
Specific conductance	11,200	µmhos/cm	N/A	
Alkalinity, Total as CaCO ₃	4760	mg/l	71.4	grams
Total Dissolved Solids	10,700	mg/l	160.5	grams
Total Suspended Solids	29.9	mg/l	0.448	grams
BOD (Biological Oxygen Demand) - 5 day	1,070	mg/l	16.05	grams
Chemical Oxygen Demand (COD)	11,800	mg/l	177	grams
Total Phosphorous	14.3	mg/l	0.215	grams
Total Kjeldahl Nitrogen	54.1	mg/l	0.812	grams
Nitrate Plus Nitrite	ND ²	mg/l	N/A	grams
Sulfate	439	mg/l	6.56	grams

Characteristics	Value	Units	Daily Volumes ¹	Units
Chloride	154	mg/l	2.31	grams
Cyanide	0.282	mg/l	4.23	mg
Aquatic Toxicity LC 50 (fish)	> 750 mg/l concentration		N/A	

Non-Detected Metals	MDL (Method Detection Limit)	Units
Aluminum	100	µg/l
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 88 cc's (5.4 cu. in.) of support material in a 7.5 liter (2 gallon) support cleaning system with the entire contents of one Stratasys Ecoworks Cleaning Agent foil bag and after a 7.5 liter water-only rinse. Larger systems with the same concentration of Ecoworks Cleaning Agent 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.

¹Typical user – assumes one cycle per day at 15 liters (4 gallons) per cycle (wash and rinse volumes combined). Daily volumes for users with larger support cleaning systems could be higher

²Not detected. MDL of 0.027 mg/l