Waste Profile Datasheet

EcoWorks Cleaning Agent with SR-35 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**
Annual discharge volume (approximate)	3000 (800)	Liters (Gallons)
Discharge Temperature	75	° C
pH	6.5 – 10	
Discharge per cycle	7.5 – 15 (2-4)	Liters (Gallons)
Metals Content (average)		
Calcium	3.58	mg/l
Magnesium	4.89	mg/l
Sodium	3540	mg/l
Organic Compounds detected		
Phenol	156	µg/l
Other Characteristics (average)		
Specific conductance	17,800	µmhos/cm
Alkalinity, Total as CaCO3	11,800	mg/l
Total Dissolved Solids	30,000	mg/l
Total Suspended Solids	131	mg/l
BOD (Biological Oxygen Demand) - 5 day	ND[1]	mg/l
Chemical Oxygen Demand (COD)	40,600	mg/l
Total Phosphorous	20.2	mg/l
Total Kjeldahl Nitrogen	97.2	mg/l
Fluoride	2.6	mg/l
Sulfate	837	mg/l
Chloride	138	mg/l
Cyanide	ND[2]	mg/l
Aquatic Toxicity LD 50 (fish)	> 750 mg/l concentration	

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 11.5 cc's (0.7 cu. in.) of support material, dissolved per liter, in a 4 liter heated (70° C) and stirred vessel with a bath solution concentration of 25 g/L. The results will vary depending on how much support material is removed in the system prior to discharge, and on the ratio of dilution with clean water. Under normal conditions, a user will average 16.4 cc's (1 cu. in.) of support material per part created.

[1]Not detected. MDL 1200 mg/L.

[2]Not detected. MDL 20 mg/L.