



Waste Profile Datasheet

WaterWorks Cleaning Agent with SR-100 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 WaterWorks 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	12			
Discharge per cycle	7.5 – 15 (2-4)	Liters (Gallons)		
Metals Content (average)				
Calcium	18	mg/l	270	mg
Iron	267	µg/l	4.0	mg
Nickel	30.5	µg/l	0.46	mg
Magnesium	5.8	mg/l	87	mg
Sodium	4,440	mg/l	66.6	grams
Organic Compounds detected				
Phenol	404	µg/l	6.06	mg
Other Characteristics (average)				
Specific conductance	18,500	µmhos/cm	N/A	
Alkalinity, Total as CaCO ₃	1,050	mg/l	15.75	grams
Total Dissolved Solids	16,700	mg/l	250.5	grams
Total Suspended Solids	156	mg/l	2.3	grams
Chemical Oxygen Demand (COD)	13,400	mg/l	201	grams
Total Phosphorous	3.5	mg/l	0.05	grams
Nitrate Plus Nitrite	ND ²	mg/l	N/A	grams
Total Kjeldahl Nitrogen	ND ³	mg/l	N/A	grams
Sulfate	739	mg/l	11.1	grams

Characteristics	Value	Units	Daily Volumes ¹	Units
Chloride	55.3	mg/l	0.83	grams
Aquatic Toxicity LD 50 (fish)	> 750 mg/l concentration		NA	

Non-Detected Metals	MDL (Method Detection Limit)	Units
Aluminum	100	µg/l
Antimony	5	µg/l
Arsenic	5	µg/l
Barium	5	µg/l
Beryllium	5	µg/l
Cadmium	1.1	µg/l
Chromium	5	µg/l
Cobalt	5	µg/l
Copper	5	µg/l
Lead	1.5	µg/l
Manganese	2.5	µg/l
Mercury	0.1	µg/l
Nickel	1	µg/l
Potassium	12.5	mg/l
Silver	5	µg/l
Thallium	7.5	µg/l
Vanadium	7.5	µg/l
Zinc	1	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 using 173 grams of Stratasys WaterWorks Cleaning Agent and after a 7.5 liter (2 gallon) water-only rinse. Larger systems with the same concentration of WaterWorks 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

³Not detected. MDL of 0.7 mg/l