



# Waste Profile Datasheet

Ecoworks Cleaning Agent with SR-10 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 <sup>1</sup>	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)		
<b>Metals Content (average)</b>				
Barium	35.7	µg/l	0.54	mg
Calcium	20.5	mg/l	307.5	mg
Chromium	48.2	µg/l	0.72	mg
Copper	30.9	µg/l	0.46	mg
Iron	354	µg/l	5.31	mg
Nickel	25.2	µg/l	0.38	mg
Magnesium	14.3	mg/l	214.5	mg
Manganese	6.7	µg/l	0.1	mg
Potassium	4.0	mg/l	60	mg
Sodium	2230	mg/l	33.45	grams
Zinc	61	µg/l	0.92	mg
<b>Organic Compounds detected</b>				
Acetone	466	µg/l	6.99	mg
Phenol	37.9	mg/l	568.5	mg
<b>Other Characteristics (average)</b>				
Specific conductance	5920	µmhos/cm	N/A	
Alkalinity, Total as CaCO <sub>3</sub>	3990	mg/l	59.85	grams
Total Dissolved Solids	10,600	mg/l	159	grams
Total Suspended Solids	32.7	mg/l	49	grams
BOD (Biological Oxygen Demand) - 5 day	706	mg/l	10.59	grams
Chemical Oxygen Demand (COD)	13,400	mg/l	201	grams
Total Phosphorous	78.9	mg/l	1.18	grams
Total Kjeldahl Nitrogen	55.8	mg/l	0.84	grams
Nitrate Plus Nitrite	ND <sup>2</sup>	mg/l	N/A	grams
Sulfate	ND <sup>3</sup>	mg/l	N/A	grams

Characteristics	Value	Units	Daily Volumes <sup>1</sup>	Units
Chloride	157	mg/l	2.36	grams
Cyanide	0.306	mg/l	4.59	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.

<sup>1</sup>Typical 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.

<sup>2</sup>Not detected. MDL of 0.027 mg/l

<sup>3</sup>Not detected. MDL of 4.7 mg/l