

TEST REPORT

CLIENT DETAILS

Client Name: DAESHIN TEXTILE
Client Contact: WOONWOO JEONG
Telephone: 82 31 491 0840
E-mail: admin@daeshintextile.co.kr

Address: 16, Hae-an-ro 397beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

LABORATORY DETAILS

SGS Affiliate: SGS KOREA CO.,LTD.
SGS Contact: ALEX, HUR
Telephone: 82 31 460 8051
E-mail: Alex.hur@sgs.com

Address: The O Valley Bldg #322, 76, Ls-ro, Dongan-gu Anyang-si, Gyeonggi-do, Korea

FACTORY DETAILS

Factory Name: DAESHIN TEXTILE
Factory Contact: WOONWOO JEONG
Telephone: 82 31 491 0840
E-mail: admin@daeshintextile.co.kr
Address: 16, Hae-an-ro 397beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea
Types of Mills: (3) Fabric Dyeing, Finishing, Washing
On-Site ETP: No
Discharge Destination: To Centralized Waste Water Treatment Plant
Name of Municipal/Centralized ETP: Banwol Fashion Color Business Cooperative
Address of Municipal/Centralized ETP: 7, Hae-an-ro 397beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea

SAMPLE AND TESTING DETAILS

Sampling Country: SGS KOREA CO.,LTD.
ZDHC Sampler's Certification No.: Donghyeok Heo / C74D106817920
 Eungdu Kim / C74D106817998
Sampling Date: 27-03-2023
Sample Received Date: 27-03-2023(SGS Korea Co. Ltd.); 06-04-2023 (SGS India Ltd.)
Test Performing Period: 27-03-2023 - 11-04-2023(SGS Korea Co. Ltd.); 06-04-2023 - 17-04-2023 (SGS India Ltd.)
No. of Samples: Water (1)
Sample Descriptions: 1) Untreated Wastewater (6-hour Composite)
Sample Volume: 38L Untreated Wastewater Samples
Testing Institute: SGS Korea Co., Ltd. / SGS India Ltd.
Discharge Method: Indirect Discharge without Pretreatment

OVERALL RESULTS

	Untreated Wastewater
Conventional Parameters / Anions / Metals:	Fulfill Aspirational Limit
MRSL Parameters:	Not Detected

REMARKS

1. This test document cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
2. The results shown in this test report refer only to the sampling and the sample(s) tested unless otherwise stated.
3. This test report contains result(s) performed by subcontracted laboratory in agreement with the client. The result(s) is/are marked with crosshatch(#) in this report.

Signed for and on behalf of

SGS Korea Co., Ltd



 Tommy Oh
 Chemical Lab Mgr

RESULT SUMMARY

Factory Name: DAESHIN TEXTILE

Factory Address: 16, Haean-ro 397beon-gil, Danwon-gu, Ansan-si, Korea

TEST ITEMS	Untreated Wastewater
Conventional Parameters	-
Anions	-
Metals	O
Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs)	O
Anti-Microbials & Biocides	O
Chlorinated Paraffins	O
Chlorobenzenes and Chlorotoluenes	O
Chlorophenols	O
Dimethyl Formamide (DMFa)	O
Dyes - Carcinogenic or Equivalent Concern	O
Dyes - Disperse (Allergenic)	O
Dyes - Navy Blue Colourant	O
Flame Retardants	O
Glycols / Glycol Ethers	O
Halogenated Solvents	O
Organotin Compounds	O
Other / Miscellaneous Chemicals	O
Perfluorinated and Polyfluorinated Chemicals (PFCs)	O
Phthalates	O
Polycyclic Aromatic Hydrocarbons (PAHs)	O
Restricted Aromatic Amines	O
UV Absorbers	O
Volatile Organic Compounds (VOCs)	O

Note:

X - Detected

O - Not Detected

N/A - Not Tested / Not Applicable



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				Sample ID	Untreated Wastewater	Factory Performances	Local Wastewater Discharged Requirement%
				Date of Sampling	27-03-2023		
				Sampling Location	SEWER TAP		
				Sampling Start Time	11:51		
				Sampling End Time	17:57		
				Date of Sample Received	27-03-2023(SGS Korea Co. Ltd.); 06-04-2023(SGS India Ltd.)		
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
Sample Colour Description	-	-	-	Light Grey	-	-	
Wastewater Flowrate*	-	-	m ³ /day	10800	-	-	
Metals							
Chromium (VI)	7440-47-3, 18540-29-9	0.001	mg/L	n.d.	Fulfill Aspirational Limit	N/A	
Total Arsenic (As)	7440-38-2	0.005	mg/L	n.d.	Fulfill Aspirational Limit	N/A	
Total Cadmium (Cd)	7440-43-9	0.01	mg/L	n.d.	Fulfill Aspirational Limit	N/A	
Total Lead (Pb)	7439-92-1	0.01	mg/L	n.d.	Fulfill Aspirational Limit	N/A	
Total Zinc (Zn)	7440-66-6	0.1	mg/L	n.d.	Fulfill Aspirational Limit	N/A	
Total Mercury (Hg)	7439-97-6	0.001	mg/L	n.d.	Fulfill Aspirational Limit	N/A	
Total Boron (B)	7440-42-8	0.1	mg/L	n.d.	Not Detected	N/A	
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers							
Nonylphenol ethoxylates (NPEO)	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	µg/L	n.d.	Not Detected	-	
Nonylphenol (NP), mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	5	µg/L	n.d.	Not Detected	-	



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Octylphenol ethoxylates (OPEO)	9002-93-1, 9036-19-5, 68987-90-6	5	µg/L	n.d.	Not Detected	-	
Octylphenol (OP), mixed isomers	140-66-9, 1806-26-4, 27193-28-8	5	µg/L	n.d.	Not Detected	-	
Anti- Microbials & Biocides							
o-Phenylphenol (+salts)(#)	90-43-7	100	µg/L	n.d.	Not Detected	-	
Triclosan(#)	3380-34-5	100	µg/L	n.d.	Not Detected	-	
Permethrin(#)	Multiple	500	µg/L	n.d.	Not Detected	-	
Chlorinated Parafins							
Medium-chain Chlorinated Paraffins (MCCPs) (#) (C14-C17)	85535-85-9	500	µg/L	n.d.	Not Detected	-	
Short-chain Chlorinated Paraffin (SCCPs)(#) (C10-C13)	85535-84-8	25	µg/L	n.d.	Not Detected	-	
Chlorobenzenes and Chlorotoluenes							
Monochlorobenzenes	108-90-7	0.2	µg/L	n.d.	Not Detected	-	
1,2-Dichlorobenzene	95-50-1	0.2	µg/L	n.d.	Not Detected	-	
1,3-Dichlorobenzene	541-73-1	0.2	µg/L	n.d.	Not Detected	-	
1,4-Dichlorobenzene	106-46-7	0.2	µg/L	n.d.	Not Detected	-	



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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
1,2,3-Trichlorobenzene	87-61-6	0.2	µg/L	n.d.	Not Detected	-	
1,2,4-Trichlorobenzene	120-82-1	0.2	µg/L	n.d.	Not Detected	-	
1,3,5-Trichlorobenzene	108-70-3	0.2	µg/L	n.d.	Not Detected	-	
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	µg/L	n.d.	Not Detected	-	
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	µg/L	n.d.	Not Detected	-	
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	µg/L	n.d.	Not Detected	-	
Pentachlorobenzene	608-93-5	0.2	µg/L	n.d.	Not Detected	-	
Hexachlorobenzene	118-74-1	0.2	µg/L	n.d.	Not Detected	-	
2-Chlorotoluene	95-49-8	0.2	µg/L	n.d.	Not Detected	-	
3-Chlorotoluene	108-41-8	0.2	µg/L	n.d.	Not Detected	-	
4-Chlorotoluene	106-43-4	0.2	µg/L	n.d.	Not Detected	-	
2,3-Dichlorotoluene	32768-54-0	0.2	µg/L	n.d.	Not Detected	-	
2,4-Dichlorotoluene	95-73-8	0.2	µg/L	n.d.	Not Detected	-	



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2,5-Dichlorotoluene	19398-61-9	0.2	µg/L	n.d.	Not Detected	-	
2,6-Dichlorotoluene	118-69-4	0.2	µg/L	n.d.	Not Detected	-	
3,4-Dichlorotoluene	95-75-0	0.2	µg/L	n.d.	Not Detected	-	
3,5-Dichlorotoluene	25186-47-4	0.2	µg/L	n.d.	Not Detected	-	
2,3,4-Trichlorotoluene	7359-72-0	0.2	µg/L	n.d.	Not Detected	-	
2,3,6-Trichlorotoluene	2077-46-5	0.2	µg/L	n.d.	Not Detected	-	
2,4,5-Trichlorotoluene	6639-30-1	0.2	µg/L	n.d.	Not Detected	-	
2,4,6-Trichlorotoluene	23749-65-7	0.2	µg/L	n.d.	Not Detected	-	
3,4,5-Trichlorotoluene	21472-86-6	0.2	µg/L	n.d.	Not Detected	-	
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	µg/L	n.d.	Not Detected	-	
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	µg/L	n.d.	Not Detected	-	
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	µg/L	n.d.	Not Detected	-	
Pentachlorotoluene	877-11-2	0.2	µg/L	n.d.	Not Detected	-	



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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
Chlorophenols							
2-Chlorophenol	95-57-8	0.5	µg/L	n.d.	Not Detected	-	
3-Chlorophenol	108-43-0	0.5	µg/L	n.d.	Not Detected	-	
4-Chlorophenol	106-48-9	0.5	µg/L	n.d.	Not Detected	-	
2,3-Dichlorophenol	576-24-9	0.5	µg/L	n.d.	Not Detected	-	
2,4-Dichlorophenol	120-83-2	0.5	µg/L	n.d.	Not Detected	-	
2,5-Dichlorophenol	583-78-8	0.5	µg/L	n.d.	Not Detected	-	
2,6-Dichlorophenol	87-65-0	0.5	µg/L	n.d.	Not Detected	-	
3,4-Dichlorophenol	95-77-2	0.5	µg/L	n.d.	Not Detected	-	
3,5-Dichlorophenol	591-35-5	0.5	µg/L	n.d.	Not Detected	-	
2,3,4-Trichlorophenol	15950-66-0	0.5	µg/L	n.d.	Not Detected	-	
2,3,5-Trichlorophenol	933-78-8	0.5	µg/L	n.d.	Not Detected	-	
2,3,6-Trichlorophenol	933-75-5	0.5	µg/L	n.d.	Not Detected	-	



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2,4,5-Trichlorophenol	95-95-4	0.5	µg/L	n.d.	Not Detected	-	
2,4,6-Trichlorophenol	88-06-2	0.5	µg/L	n.d.	Not Detected	-	
3,4,5-Trichlorophenol	609-19-8	0.5	µg/L	n.d.	Not Detected	-	
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	µg/L	n.d.	Not Detected	-	
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	µg/L	n.d.	Not Detected	-	
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	µg/L	n.d.	Not Detected	-	
Pentachlorophenol (PCP)	87-86-5	0.5	µg/L	n.d.	Not Detected	-	
Dimethyl Formamide (DMFa)							
Dimethyl formamide; N,N-dimethylformamide (DMFa)**	68-12-2	1000	µg/L	n.d.	Not Detected	-	
Dyes - Carcinogenic or Equivalent Concern							
Basic Violet 3 with >0.1% of Michler's Ketoneb(#)	548-62-9	500	µg/L	n.d.	Not Detected	-	
C.I. Acid Red 26(#)	3761-53-3	500	µg/L	n.d.	Not Detected	-	
C.I. Acid Violet 49(#)	1694-09-3	500	µg/L	n.d.	Not Detected	-	
C.I. Basic Blue 26 with Michler's Ketone >0.1%(#)	2580-56-5	500	µg/L	n.d.	Not Detected	-	



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C.I. Basic Green 4 (Malachite Green Chloride)^(#)	569-64-2	500	µg/L	n.d.	Not Detected	-	
C.I. Basic Green 4 (Malachite Green Oxalate)^(#)	2437-29-8	500	µg/L	n.d.	Not Detected	-	
C.I. Basic Green 4 (Malachite Green)(#)	10309-95-2	500	µg/L	n.d.	Not Detected	-	
C.I. Basic Red 9(#)	569-61-9	500	µg/L	n.d.	Not Detected	-	
C.I. Basic Violet 14(#)	632-99-5	500	µg/L	n.d.	Not Detected	-	
C.I. Direct Black 38(#)	1937-37-7	500	µg/L	n.d.	Not Detected	-	
C.I. Direct Blue 6(#)	2602-46-2	500	µg/L	n.d.	Not Detected	-	
C.I. Direct Red 28(#)	573-58-0	500	µg/L	n.d.	Not Detected	-	
C.I. Disperse Blue 1(#)	2475-45-8	500	µg/L	n.d.	Not Detected	-	
C.I. Disperse Blue 3(#)	2475-46-9	500	µg/L	n.d.	Not Detected	-	
Disperse Orange 11(#)	82-28-0	500	µg/L	n.d.	Not Detected	-	
Dyes - Disperse (Allergenic)							
Disperse Blue 102	12222-97-8	50	µg/L	n.d.	Not Detected	-	



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Disperse Blue 106	12223-01-7	50	µg/L	n.d.	Not Detected	-	
Disperse Blue 124	61951-51-7	50	µg/L	n.d.	Not Detected	-	
Disperse Blue 26	3860-63-7	50	µg/L	n.d.	Not Detected	-	
Disperse Blue 35	12222-75-2, 56524-77-7	50	µg/L	n.d.	Not Detected	-	
Disperse Blue 7	3179-90-6	50	µg/L	n.d.	Not Detected	-	
Disperse Brown 1	23355-64-8	50	µg/L	n.d.	Not Detected	-	
Disperse Orange 1	2581-69-3	50	µg/L	n.d.	Not Detected	-	
Disperse Orange 3	730-40-5	50	µg/L	n.d.	Not Detected	-	
Disperse Orange 37/59/76	13301-61-6	50	µg/L	n.d.	Not Detected	-	
Disperse Red 1	2872-52-8	50	µg/L	n.d.	Not Detected	-	
Disperse Red 11	2872-48-2	50	µg/L	n.d.	Not Detected	-	
Disperse Red 17	3179-89-3	50	µg/L	n.d.	Not Detected	-	
Disperse Yellow 1	119-15-3	50	µg/L	n.d.	Not Detected	-	



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Disperse Yellow 3	2832-40-8	50	µg/L	n.d.	Not Detected	-	
Disperse Yellow 39	12236-29-2	50	µg/L	n.d.	Not Detected	-	
Disperse Yellow 49	54824-37-2	50	µg/L	n.d.	Not Detected	-	
Disperse Yellow 9	6373-73-5	50	µg/L	n.d.	Not Detected	-	
Dyes - Navy Blue Colourant							
Component 1: C39H23Cl-CrN7O12S 2Na(#)	118685-33-9	500	µg/L	n.d.	Not Detected	-	
Component 2: C46H-30CrN10O20S2 3Na(#)	Not Allocated	500	µg/L	n.d.	Not Detected	-	
Flame Retardants							
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)(#)	3296-90-0	25	µg/L	n.d.	Not Detected	-	
Bis(2,3-dibromopropyl) phosphate (BIS)(#)	5412-25-9	25	µg/L	n.d.	Not Detected	-	
Decabromodiphenyl ether (DecaBDE)(#)	1163-19-5	25	µg/L	n.d.	Not Detected	-	
Hexabromocyclodecane (HBCDD)(#)	3194-55-6	25	µg/L	n.d.	Not Detected	-	
Octabromodiphenyl ether (OctaBDE)(#)	32536-52-0	25	µg/L	n.d.	Not Detected	-	
Pentabromodiphenyl ether (PentaBDE)(#)	32534-81-9	25	µg/L	n.d.	Not Detected	-	



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Pentabromodiphenyl ether (PentaBDE)(#)	59536-65-1	25	µg/L	n.d.	Not Detected	-
Tetrabromobisphenol A (TBBPA)(#)	79-94-7	25	µg/L	n.d.	Not Detected	-
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)(#)	13674-84-5	25	µg/L	n.d.	Not Detected	-
Tris(1-aziridinyl)phosphine oxide (TEPA)(#)	545-55-1	25	µg/L	n.d.	Not Detected	-
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)(#)	13674-87-8	25	µg/L	n.d.	Not Detected	-
Tris(2-chloroethyl) phosphate (TCEP)(#)	115-96-8	25	µg/L	n.d.	Not Detected	-
Tris(2,3,-dibromopropyl)-phosphate (TRIS)(#)	126-72-7	25	µg/L	n.d.	Not Detected	-
Decabromobiphenyl (DecaBB)(#)	13654-09-6	25	µg/L	n.d.	Not Detected	-
Dibromobiphenyls (DiBB)(#)	Multiple	25	µg/L	n.d.	Not Detected	-
Octabromobiphenyls (OctaBB)(#)	Multiple	25	µg/L	n.d.	Not Detected	-
Dibromopropylether(#)	21850-44-2	25	µg/L	n.d.	Not Detected	-
Heptabromodiphenyl ether (HeptaBDE)(#)	68928-80-3	25	µg/L	n.d.	Not Detected	-
Hexabromodiphenyl ether (HexaBDE)(#)	36483-60-0	25	µg/L	n.d.	Not Detected	-



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Monobromobiphenyls (MonoBB)(#)	Multiple	25	µg/L	n.d.	Not Detected	-	
Monobromodiphenylethers (MonoBDEs)(#)	Multiple	25	µg/L	n.d.	Not Detected	-	
Nonabromobiphenyls (NonaBB)(#)	Multiple	25	µg/L	n.d.	Not Detected	-	
Nonabromodiphenyl ether (NonaBDE)(#)	63936-56-1	25	µg/L	n.d.	Not Detected	-	
Tetrabromodiphenyl ether (TetraBDE)(#)	40088-47-9	25	µg/L	n.d.	Not Detected	-	
Tribromodiphenylethers (TriBDEs)(#)	Multiple	25	µg/L	n.d.	Not Detected	-	
Boric acid(#)	10043-35-3, 11113-50-1	100	µg/L	See Total Boron (B) Result	Not Detected	-	
Diboron trioxide(#)	1303-86-2	100	µg/L	See Total Boron (B) Result	Not Detected	-	
Disodium octaborate(#)	12008-41-2	100	µg/L	See Total Boron (B) Result	Not Detected	-	
Disodium tetraborate anhydrous(#)	1303-96-4, 1330-43-4	100	µg/L	See Total Boron (B) Result	Not Detected	-	
Tetraboron disodium heptaoxide, hydrate(#)	12267-73-1	100	µg/L	See Total Boron (B) Result	Not Detected	-	
Glycols / Glycol Ethers							
2-ethoxyethanol	110-80-5	50	µg/L	n.d.	Not Detected	-	



TEST RESULTS

Factory Name: DAESHIN TEXTILE

Factory Address: 16, Haean-ro 397beon-gil, Danwon-gu, Ansan-si, Korea

				Sample ID	Untreated Wastewater	Factory Performances	Local Wastewater Discharged Requirement%
				Date of Sampling	27-03-2023		
				Sampling Location	SEWER TAP		
				Sampling Start Time	11:51		
				Sampling End Time	17:57		
				Date of Sample Received	27-03-2023(SGS Korea Co. Ltd.); 06-04-2023(SGS India Ltd.)		
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
2-ethoxyethyl acetate	111-15-9	50	µg/L	n.d.	Not Detected	-	
2-methoxyethanol	109-86-4	50	µg/L	n.d.	Not Detected	-	
2-methoxyethylacetate	110-49-6	50	µg/L	n.d.	Not Detected	-	
2-methoxypropylacetate	70657-70-4	50	µg/L	n.d.	Not Detected	-	
Bis(2-methoxyethyl)-ether	111-96-6	50	µg/L	n.d.	Not Detected	-	
Ethylene glycol dimethyl ether	110-71-4	50	µg/L	n.d.	Not Detected	-	
Triethylene glycol dimethyl ether	112-49-2	50	µg/L	n.d.	Not Detected	-	
Halogenated Solvents							
1,2-Dichloroethane (#)	107-06-2	1	µg/L	n.d.	Not Detected	-	
Methylene chloride (#)	75-09-2	1	µg/L	n.d.	Not Detected	-	
Tetrachloroethylene(#)	127-18-4	1	µg/L	n.d.	Not Detected	-	
Trichloroethylene(#)	79-01-6	1	µg/L	n.d.	Not Detected	-	
Organotin Compounds							
Dipropyltin compounds (DPT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	



TEST RESULTS

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				Date of Sample Received	27-03-2023(SGS Korea Co. Ltd.); 06-04-2023(SGS India Ltd.)		
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater		
Mono-, di- and tri-butyltin derivatives(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Monobutyltin (MBT)(#)	1118-46-3, 78763-54-9	0.01	µg/L	n.d.	Not Detected	-	
Dibutyltin (DBT)(#)	1002-53-5	0.01	µg/L	n.d.	Not Detected	-	
Tributyltin (TBT)(#)	56573-85-4	0.01	µg/L	n.d.	Not Detected	-	
Mono-, di- and tri-methyltin derivatives(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Monomethyltin (MMT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Dimethyltin (DMT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Trimethyltin (TMT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Mono-, di- and tri-octyltin derivatives(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Monooctyltin (MOT)(#)	15231-57-9	0.01	µg/L	n.d.	Not Detected	-	
Diocetyltn (DOT)(#)	94410-05-6, 12531-44-4	0.01	µg/L	n.d.	Not Detected	-	
Triocetyltn (TOT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Mono-, di- and tri-phenyltin derivatives(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	



TEST RESULTS

Factory Name: DAESHIN TEXTILE

Factory Address: 16, Haeon-ro 397beon-gil, Danwon-gu, Ansan-si, Korea

	Sample ID			Untreated Wastewater		Factory Performances	Local Wastewater Discharged Requirement%
	Date of Sampling			27-03-2023			
	Sampling Location			SEWER TAP			
	Sampling Start Time			11:51			
	Sampling End Time			17:57			
	Date of Sample Received			27-03-2023(SGS Korea Co. Ltd.); 06-04-2023(SGS India Ltd.)			
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
Monophenyltin (MPHT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Diphenyltin (DPhT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Triphenyltin (TPhT)(#)	892-20-6, 668-34-8	0.01	µg/L	n.d.	Not Detected	-	
Tetrabutyltin compounds (TeBT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Tripropyltin Compounds (TPT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Tetraoctyltin compounds (TeOT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Tricyclohexyltin (TCyHT)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Tetraethyltin Compounds (TeET)(#)	Multiple	0.01	µg/L	n.d.	Not Detected	-	
Other/Miscellaneous Chemicals							
AEEA(#) [2-(2-aminoethylamino) ethanol]	111-41-1	500	µg/L	n.d.	Not Detected	-	
Bisphenol A(#)	80-05-7	10	µg/L	n.d.	Not Detected	-	
Thiourea(#)	62-56-6	50	µg/L	n.d.	Not Detected	-	
Quinoline(#)	91-22-5	50	µg/L	n.d.	Not Detected	-	

TEST RESULTS

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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
Borate, zinc salt(#)	12767-90-7	100	µg/L	See Total Zinc (Zn) & Total Boron (B) Results	Not Detected	-	
Perfluorinated and Polyfluorinated Chemicals (PFCs)							
Perfluorooctane sulfonate (PFOS)***(#)	1763-23-1	0.01	µg/L	n.d.	Not Detected	-	
N-ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)(#)	4151-50-2	0.01	µg/L	n.d.	Not Detected	-	
N-methylperfluoro-1-octanesulfonamide (N-Me-FOSA)(#)	31506-32-8	0.01	µg/L	n.d.	Not Detected	-	
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)(#)	1691-99-2	0.01	µg/L	n.d.	Not Detected	-	
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)(#)	24448-09-7	0.01	µg/L	n.d.	Not Detected	-	
Perfluorooctane sulfonamide (PFOSA)(#)	754-91-6	0.01	µg/L	n.d.	Not Detected	-	
Perfluorooctanoic acid (PFOA)****(#)	335-67-1	0.01	µg/L	n.d.	Not Detected	-	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)(#)	39108-34-4	1	µg/L	n.d.	Not Detected	-	
Methyl Perfluorooctanoate (Me-PFOA)(#)	376-27-2	1	µg/L	n.d.	Not Detected	-	
Ethyl Perfluorooctanoate (Et-PFOA)(#)	3108-24-5	1	µg/L	n.d.	Not Detected	-	
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)(#)	678-39-7	1	µg/L	n.d.	Not Detected	-	



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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)(#)	27905-45-9	1	µg/L	n.d.	Not Detected	-	
8:2 Fluorotelomer methacrylate (8:2 FTMA)(#)	1996-88-9	1	µg/L	n.d.	Not Detected	-	
Phthalates - including all other esters of ortho-phthalic acid							
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)(#)	71888-89-6, 84777-06-0	10	µg/L	n.d.	Not Detected	-	
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)(#)	68515-42-4, 68515-50-4	10	µg/L	n.d.	Not Detected	-	
Bis(2-methoxyethyl) phthalate (DMEP)(#)	117-82-8	10	µg/L	n.d.	Not Detected	-	
Butyl benzyl phthalate (BBP)(#)	85-68-7	10	µg/L	n.d.	Not Detected	-	
Di-cyclohexyl phthalate (DCHP)(#)	84-61-7	10	µg/L	n.d.	Not Detected	-	
Di-iso-decyl phthalate (DIDP)(#)	26761-40-0	10	µg/L	n.d.	Not Detected	-	
Di-iso-octyl phthalate (DIOP)(#)	27554-26-3	10	µg/L	n.d.	Not Detected	-	
Di-isobutyl phthalate (DIBP)(#)	84-69-5	10	µg/L	n.d.	Not Detected	-	
Di-isononyl phthalate (DINP)(#)	28553-12-0	10	µg/L	n.d.	Not Detected	-	
Di-n-hexyl phthalate (DnHP)(#)	84-75-3	10	µg/L	n.d.	Not Detected	-	



TEST RESULTS

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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
Di-n-octyl phthalate (DNOP)(#)	117-84-0	10	µg/L	n.d.	Not Detected	-	
Di-n-pentylphthalates(#)	131-18-0	10	µg/L	n.d.	Not Detected	-	
Di-n-propyl phthalate (DPRP)(#)	131-16-8	10	µg/L	n.d.	Not Detected	-	
Di(ethylhexyl) phthalate (DEHP)(#)	117-81-7	10	µg/L	n.d.	Not Detected	-	
Dibutyl phthalate (DBP)(#)	84-74-2	10	µg/L	n.d.	Not Detected	-	
Diethyl phthalate (DEP)(#)	84-66-2	10	µg/L	n.d.	Not Detected	-	
Diisopentylphthalates(#)	605-50-5	10	µg/L	n.d.	Not Detected	-	
Dinonyl phthalate (DNP)(#)	84-76-4	10	µg/L	n.d.	Not Detected	-	
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	83-32-9	1	µg/L	n.d.	Not Detected	-	
Acenaphthylene	208-96-8	1	µg/L	n.d.	Not Detected	-	
Anthracene	120-12-7	1	µg/L	n.d.	Not Detected	-	
Benzo[a]anthracene	56-55-3	1	µg/L	n.d.	Not Detected	-	



TEST RESULTS

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	Sample ID			Untreated Wastewater		Factory Performances	Local Wastewater Discharged Requirement%
	Date of Sampling			27-03-2023			
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	Sampling Start Time			11:51			
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	Date of Sample Received			27-03-2023(SGS Korea Co. Ltd.); 06-04-2023(SGS India Ltd.)			
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
Benzo[a]pyrene (BaP)	50-32-8	1	µg/L	n.d.	Not Detected	-	
Benzo[b]fluoranthene	205-99-2	1	µg/L	n.d.	Not Detected	-	
Benzo[e]pyrene	192-97-2	1	µg/L	n.d.	Not Detected	-	
Benzo[ghi]perylene	191-24-2	1	µg/L	n.d.	Not Detected	-	
Benzo[j]fluoranthene	205-82-3	1	µg/L	n.d.	Not Detected	-	
Benzo[k]fluoranthene	207-08-9	1	µg/L	n.d.	Not Detected	-	
Chrysene	218-01-9	1	µg/L	n.d.	Not Detected	-	
Dibenz[a,h]anthracene	53-70-3	1	µg/L	n.d.	Not Detected	-	
Fluoranthene	206-44-0	1	µg/L	n.d.	Not Detected	-	
Fluorene	86-73-7	1	µg/L	n.d.	Not Detected	-	
Indeno[1,2,3-cd]pyrene	193-39-5	1	µg/L	n.d.	Not Detected	-	
Naphthalene	91-20-3	1	µg/L	n.d.	Not Detected	-	
Phenanthrene	85-01-8	1	µg/L	n.d.	Not Detected	-	



TEST RESULTS

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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
Pyrene	129-00-0	1	µg/L	n.d.	Not Detected	-	
Restricted Aromatic Amines (Cleavable from Azo-colourants)							
2-naphthylamine	91-59-8	0.1	µg/L	n.d.	Not Detected	-	
2-Naphthylammoniumacetate^	553-00-4	0.1	µg/L	n.d.	Not Detected	-	
2,4-xylidine	95-68-1	0.1	µg/L	n.d.	Not Detected	-	
2,4,5-trimethylaniline	137-17-7	0.1	µg/L	n.d.	Not Detected	-	
2,4,5-trimethylaniline hydrochloride^	21436-97-5	0.1	µg/L	n.d.	Not Detected	-	
2,6-xylidine	87-62-7	0.1	µg/L	n.d.	Not Detected	-	
3,3'-dichlorobenzidine	91-94-1	0.1	µg/L	n.d.	Not Detected	-	
3,3-dimethoxybenzidine	119-90-4	0.1	µg/L	n.d.	Not Detected	-	
3,3-dimethylbenzidine	119-93-7	0.1	µg/L	n.d.	Not Detected	-	
4-aminoazobenzene	60-09-3	0.1	µg/L	n.d.	Not Detected	-	
4-aminodiphenyl	92-67-1	0.1	µg/L	n.d.	Not Detected	-	



TEST RESULTS

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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
4-chloro-o-toluidine	95-69-2	0.1	µg/L	n.d.	Not Detected	-	
4-chloro-o-toluidinium chloride^	3165-93-3	0.1	µg/L	n.d.	Not Detected	-	
4-chloroaniline	106-47-8	0.1	µg/L	n.d.	Not Detected	-	
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate^	39156-41-7	0.1	µg/L	n.d.	Not Detected	-	
4-methoxy-m-phenylenediamine	615-05-4	0.1	µg/L	n.d.	Not Detected	-	
4-methyl-m-phenylenediamine	95-80-7	0.1	µg/L	n.d.	Not Detected	-	
4,4-methylenebis-(2-chloro-aniline)	101-14-4	0.1	µg/L	n.d.	Not Detected	-	
4,4-methylenedi-o-toluidine	838-88-0	0.1	µg/L	n.d.	Not Detected	-	
4,4-methylenedianiline	101-77-9	0.1	µg/L	n.d.	Not Detected	-	
4,4-oxydianiline	101-80-4	0.1	µg/L	n.d.	Not Detected	-	
4,4-thiodianiline	139-65-1	0.1	µg/L	n.d.	Not Detected	-	
5-nitro-o-toluidine	99-55-8	0.1	µg/L	n.d.	Not Detected	-	



TEST RESULTS

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Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
6-methoxy-m-toluidine	120-71-8	0.1	µg/L	n.d.	Not Detected	-	
Benzidine	92-87-5	0.1	µg/L	n.d.	Not Detected	-	
o-aminoazotoluene	97-56-3	0.1	µg/L	n.d.	Not Detected	-	
o-anisidine	90-04-0	0.1	µg/L	n.d.	Not Detected	-	
o-toluidine	95-53-4	0.1	µg/L	n.d.	Not Detected	-	
UV Absorbers							
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)(#)	36437-37-3	100	µg/L	n.d.	Not Detected	-	
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)(#)	25973-55-1	100	µg/L	n.d.	Not Detected	-	
2-benzotriazol-2-yl-4,6-ditertbutylphenol (UV-320)(#)	3846-71-7	100	µg/L	n.d.	Not Detected	-	
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl)phenol (UV-327)(#)	3864-99-1	100	µg/L	n.d.	Not Detected	-	
Volatile Organic Compounds (VOC)							
Benzene(#)	71-43-2	1	µg/L	n.d.	Not Detected	-	
m-cresol(#)	108-39-4	1	µg/L	n.d.	Not Detected	-	
o-cresol(#)	95-48-7	1	µg/L	n.d.	Not Detected	-	



Report No.: F690101/LF-CTSAYSA23-04740

Date of Report : 24-04-2023

TEST RESULTS

Factory Name: DAESHIN TEXTILE

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				Sample ID	Untreated Wastewater	Factory Performances	Local Wastewater Discharged Requirement%
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				Date of Sample Received	27-03-2023(SGS Korea Co. Ltd.); 06-04-2023(SGS India Ltd.)		
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent	
p-cresol(#)	106-44-5	1	µg/L	n.d.	Not Detected	-	
Xylene(#)	1330-20-7	1	µg/L	n.d.	Not Detected	-	
Toluene**(#)	108-88-3	1	µg/L	n.d.	Not Detected	-	



TEST RESULTS

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	Sample ID			Untreated Wastewater	Factory Performances	Local Wastewater Discharged Requirement%
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	Date of Sample Received			27-03-2023(SGS Korea Co. Ltd.); 06-04-2023(SGS India Ltd.)		
Items	CAS No.	Reporting Limit	Units	Untreated Wastewater	Untreated Wastewater	Effluent

Remarks:

"n.d." = Not Detected

"N/A" = Not Tested / Not Applicable

"-" = Not Required to be Test

^The test result is based on the calculation of selected element(s) and to the worst-case scenario

*Test data is measured/provided by the client

**Sample and report only for mock leather

***PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3) , PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

****PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)

%Please refer to the details of the Local Wastewater Discharge Requirement in the Appendix Section

TEST PARAMETERS

Factory Name: DAESHIN TEXTILE
Factory Address: 16, Haeon-ro 397beon-gil, Danwon-gu, Ansan-si, Korea

ITEMS	CAS No.	METHODS	WASTEWATER			SLUDGE						LEACHATE						
			Foundational	Progressive	Aspirational	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F
Conventional Parameters																		
pH	-	<u>Wastewater:</u> ISO 10523, USEPA 150.1, SM 4500 H ⁺ , HJ 1147 or IS 3025 (Part 11) - Electrometric method only <u>Sludge:</u> USEPA 9045 D or HJ 962	6-9	Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9	-	-	-	-	-	-	-	-
Temperature	-	DIN 38 404-4, USEPA 170.1, SM 2550, GB/T 13195 or IS 3025 (Part 9)	Δ+15°C Δ+10°C Δ+5°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. Coli	-	SM 9221 B presumptive, confirm positive with SM 9221 F or G	126cfu/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colour (436nm; 525nm; 620nm)	-	ISO 7887 B	7;5,3m ⁻¹ 5;3,2m ⁻¹ 2;1,1m ⁻¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Persistent Foam	-	-	No indication of Persistent Foam in receiving water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wastewater Flowrate	-	-	15m ³ per day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonium-N	-	ISO 7150, ISO 11732, USEPA 350.1, USEPA 350.3, SM 4500 NH ₃ D, E, F, G or H, HJ 535 or IS 3025 (Part 34) - Phenate or ammonia selective electrode only	10mg/L 1mg/L 0.5mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOX	-	ISO 9562, HACH LCK 390 or HJT 83-2001	3mg/L 0.5mg/L 0.1mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-Days Biochemical Oxygen Demand (BOD ₅)	-	ISO 5815-1, USEPA 405.1, SM 5210 B, HJ 505 or IS 3025 (Part 44) - Seeded dilution water (BOD ₅)	30mg/L 15mg/L 8mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chemical Oxygen Demand (COD)	-	ISO 6060, ISO 15705, USEPA 410.4, SM 5220 D, HJ 828, GB/T 11914 or IS 3025 (Part 58)	150mg/L 80mg/L 40mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen (DO)	-	ISO 5814, USEPA 360.1, SM 4500 O G or HJ 506	Sample and Report Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oil & Grease	-	ISO 9377-2, USEPA 1664 Revision B, SM 5520 B or C, HJ 637 - Total oil and grease or IS 3025 (Part 39) - Partition gravimetric or partition infra-red	10mg/L 2mg/L 0.5mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phenols / Phenol Index	-	ISO 6439, SM 5530 B or C, HJ 503 or IS 3025 (Part 43)	0.5mg/L 0.01mg/L 0.001mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Chlorine	-	ISO 7393-2, USEPA 330.5, SM 4500 Cl G or HJ 586	Sample and Report Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	-	USEPA 160.1, SM 2540 C, GB/T 5750.4-2006 (180°C centrifuge) or IS 3025 (Part 16) 179°C to 181°C	Sample and Report Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Nitrogen	-	ISO 11905 - Part 1, ISO 29441, USEPA 351.2, SM 4500 P J, SM 4500 N B, C, HJ 636 or IS 3025 (Part 34) (Ammonia, nitrate, nitrite, organic)	20mg/L 10mg/L 5mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	-	ISO 6878, ISO 11885, ISO 17294, USEPA 200.7, USEPA 200.8, USEPA 365.4, USEPA 6010 C, USEPA 6020 A, SM 4500 P J, GB/T 11893, IS 3025 (Part 31) or IS 3025 (Part 65)	3mg/L 0.5mg/L 0.1mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	ISO 11923, USEPA 160.2, SM 2540 D, GB/T 11901 or IS 3025 (Part 17) 103°C to 105°C	50mg/L 15mg/L 5mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Solids	-	USEPA 160.3 or HJ 613 at 105°C	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	-	-	-	-	-	-	-	-
Paint Filter Test	-	USEPA SW-846 or USEPA 9095 B	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only	-	-	-	-	-	-	-	-
Fecal Coliform	-	USEPA 1681	-	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	Sample and Report Only	1000MPN/g	1000MPN/g	-	-	-	-	-	-	-	-
Anions																		
Chloride	-	ISO 10304-1, ISO 15923-1, USEPA 300, SM 4110 B, C, SM 4500 Cl D or E, HJ 84-2016 or IS 3025 (Part 32) - Potentiometric or automated mercuric ion only	Sample and Report Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	-	<u>Wastewater:</u> ISO 6703-1, -2, -3, ISO 14403-1, -2, USEPA 335.2, SM 4500 CN or HJ 484 <u>Sludge:</u> Preparation: USEPA 9013 Analysis: USEPA 9014, USEPA 9213 or HJ 745	0.2mg/L 0.1mg/L 0.05mg/L	Sample and Report Only	Sample and Report Only	100mg/kg	85mg/kg	70mg/kg	70mg/kg	70mg/kg	-	-	-	-	-	-	-	-
Sulfate	-	ISO 10304-1, ISO 15923-1, USEPA 300, USEPA 9038, SM 4110 B, C, SM 4500 SO ₄ ²⁻ E, F, G, HJ 84-2016 or IS 3025 (Part 24)	Sample and Report Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	-	ISO 10530, SM 4500 S ²⁻ D, E, G or I, HJ 1226 or IS 3025 (Part 29) - Methylene blue only	0.5mg/L 0.05mg/L 0.01mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfite	-	ISO 10304-3, SM 4500 SO ₃ ²⁻ C or HJ 84-2016	2mg/L 0.5mg/L 0.2mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Total Antimony (Sb)	7440-36-0	<u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65) <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A	0.1mg/L 0.05mg/L 0.01mg/L	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	Sample and Report Only	Sample and Report Only	Sample and Report Only	15mg/L	7.8mg/L	0.6mg/L	0.6mg/L	0.6mg/L
Chromium (VI)	7440-47-3, 18540-29-9	<u>Wastewater:</u> ISO 18412, USEPA 218.6, GB 7467 or IS 3025 (Part 52) <u>Sludge:</u> Preparation: USEPA 3060 A Analysis: USEPA 7196 or USEPA 7199 <u>Leachate:</u> Leachate Extraction: USEPA 1311 Analysis: ISO 18412, USEPA 7196 or USEPA 7199	0.05mg/L 0.005mg/L 0.001mg/L	20mg/kg	20mg/kg	20mg/kg	20mg/kg	20mg/kg	20mg/kg	50mg/kg	Sample and Report Only	Sample and Report Only	5mg/L	3.75mg/L	2.5mg/L	2.5mg/L	2.5mg/L	

TEST PARAMETERS

Factory Name: DAESHIN TEXTILE
Factory Address: 16, Haeon-ro 397beon-gil, Danwon-gu, Ansan-si, Korea

ITEMS	CAS No.	METHODS	WASTEWATER			SLUDGE							LEACHATE						
			Foundational	Progressive	Aspirational	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G
Total Barium (Ba)	7440-39-3	<p><u>Wastewater:</u> USEPA 200.8, USEPA 6010 C, USEPA 6020 A or HJ 700 <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D or USEPA 6020 B <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p> <p><u>Wastewater:</u> USEPA 200.8, USEPA 6010 C, USEPA 6020 A or HJ 700 <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D or USEPA 6020 B <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	Sample and Report Only	200mg/kg	200mg/kg	200mg/kg	200mg/kg	200mg/kg	200mg/kg	Sample and Report Only	Sample and Report Only	Sample and Report Only	100mg/L	67.5mg/L	35mg/L	35mg/L	35mg/L		
Total Selenium (Se)	7782-49-2	<p><u>Wastewater:</u> USEPA 200.8, USEPA 6010 C, USEPA 6020 A or HJ 700 <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D or USEPA 6020 B <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	Sample and Report Only	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	100mg/kg	Sample and Report Only	Sample and Report Only	1mg/L	0.75mg/L	0.5mg/L	0.5mg/L	0.5mg/L		
Total Tin (Sn)	7440-31-5	USEPA 200.8, USEPA 6010 C, USEPA 6020 A or HJ 700	Sample and Report Only																
Total Arsenic (As)	7440-38-2	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65) <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	0.05mg/L	0.01mg/L	0.005mg/L	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	75mg/kg	Sample and Report Only	Sample and Report Only	5mg/L	2.75mg/L	0.5mg/L	0.5mg/L	0.5mg/L
Total Chromium (Cr)	7440-47-3	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65) <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	0.2mg/L	0.1mg/L	0.05mg/L	50mg/kg	50mg/kg	50mg/kg	50mg/kg	50mg/kg	50mg/kg	3000mg/kg	Sample and Report Only	Sample and Report Only	15mg/L	10mg/L	5mg/L	5mg/L	5mg/L
Total Cobalt (Co)	7440-48-4	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65) <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	0.05mg/L	0.02mg/L	0.01mg/L	400mg/kg	400mg/kg	400mg/kg	400mg/kg	400mg/kg	Sample and Report Only	Sample and Report Only	Sample and Report Only	80mg/L	80mg/L	80mg/L	80mg/L	80mg/L	
Total Cadmium (Cd)	7440-43-9	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 41) - AAS instrumental method <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	0.1mg/L	0.05mg/L	0.01mg/L	1mg/kg	1mg/kg	1mg/kg	1mg/kg	1mg/kg	85mg/kg	Sample and Report Only	Sample and Report Only	1mg/L	0.58mg/L	0.15mg/L	0.15mg/L	0.15mg/L	
Total Copper (Cu)	7440-50-8	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 42) - AAS instrumental method <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	1mg/L	0.5mg/L	0.25mg/L	50mg/kg	50mg/kg	50mg/kg	50mg/kg	50mg/kg	4300mg/kg	Sample and Report Only	Sample and Report Only	25mg/L	17.5mg/L	10mg/L	10mg/L	10mg/L	
Total Lead (Pb)	7439-92-1	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 47) - AAS instrumental method <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	0.1mg/L	0.05mg/L	0.01mg/L	5mg/kg	5mg/kg	5mg/kg	5mg/kg	5mg/kg	840mg/kg	Sample and Report Only	Sample and Report Only	5mg/L	2.75mg/L	0.5mg/L	0.5mg/L	0.5mg/L	
Total Nickel (Ni)	7440-02-0	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 11912, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 54) - AAS instrumental method <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803 <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	0.2mg/L	0.1mg/L	0.05mg/L	20mg/kg	20mg/kg	20mg/kg	20mg/kg	20mg/kg	420mg/kg	Sample and Report Only	Sample and Report Only	20mg/L	11.75mg/L	3.5mg/L	3.5mg/L	3.5mg/L	
Total Silver (Ag)	7440-22-4	<p><u>Wastewater:</u> ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 11907, HJ 700 or IS 3025 (Part 65) <u>Sludge:</u> Preparation: USEPA 3050 Analysis: USEPA 6010 D or USEPA 6020 B <u>Leachate:</u> Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A</p>	0.1mg/L	0.05mg/L	0.005mg/L	50mg/kg	50mg/kg	50mg/kg	50mg/kg	50mg/kg	Sample and Report Only	Sample and Report Only	Sample and Report Only	5mg/L	5mg/L	5mg/L	5mg/L	5mg/L	

TEST PARAMETERS

Factory Name: DAESHIN TEXTILE
Factory Address: 16, Haeon-ro 397beon-gil, Danwon-gu, Ansan-si, Korea

ITEMS	CAS No.	METHODS	WASTEWATER			SLUDGE							LEACHATE						
			Foundational	Progressive	Aspirational	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G
Glycols / Glycol Ethers		With reference to USEPA 8270 E or Liquid extraction followed by LC-MS or GC-MS		50µg/L															
Halogenated Solvents		With reference to USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS		1µg/L															
Organotin Compounds		<u>TeEt</u> : With reference to ISO 17353 <u>Others</u> : With reference to ISO 17353 or Derivatization with NaB(C ₂ H ₅) ₂ followed by GC-MS		0.01µg/L															
Other/Miscellaneous Chemicals																			
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	With reference to Liquid extraction followed by LC-MS/MS		500µg/L															
Bisphenol A	80-05-7	With reference to Liquid extraction followed by LC-MS		10µg/L															
Thiourea	62-56-6	With reference to Liquid extraction followed by LC-MS		50µg/L															
Quinoline	91-22-5	With reference to Liquid extraction followed by LC-MS		50µg/L															
Borate, zinc salt	12767-90-7	ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)		100µg/L															
Perfluorinated and Polyfluorinated Chemicals (PFCs)		<u>PFCs</u> : With reference to USEPA 537:2020 followed by LC-MS(MS) <u>FTOH</u> : With reference to BS EN 12673-1999, USEPA 8270 E or Derivatization with acetic anhydride followed by GC-MS		PFCs: 0.01µg/L FTOH: 1µg/L															
Phthalates		With reference to ISO 18856, USEPA 8270 E or Dichloromethane extraction followed by GC-MS		10µg/L															
Polycyclic Aromatic Hydrocarbons (PAHs)		<u>Water/water</u> : With reference to DIN 38407-39, USEPA 8270 E or Solvent extraction followed by GC-MS <u>Sludge</u> : Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic Clean-up: With reference to USEPA 3540 Analysis: With reference to USEPA 8270 E or HJ 805-2016		1µg/L	Sample and Report Only	Sample and Report Only	Sample and Report Only	0.2mg/kg	0.2mg/kg	0.2mg/kg	0.2mg/kg								
Restricted Aromatic Amines (Cleavable from Azo-colourants)		With reference to USEPA 8270 E or Reduction step with sodium dithionite, solvent extraction followed by GC-MS and LC-MS/MS		0.1µg/L															
UV Absorbers		With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(MS)		100µg/L															
Volatile Organic Compounds (VOCs)																			
Benzene	71-43-2	With reference to ISO 11423-1, ISO 20595, USEPA 8260 D, Purge and Trap or Static Headspace followed by GC-MS		1µg/L															
m-cresol / o-cresol / p-cresol	108-39-4 / 94-48-7 / 106-44-5	With reference to BS EN 12637-1999, ISO 11423-1, USEPA 8270 E, Purge and Trap or Headspace followed by GC-MS		1µg/L															
Xylene	1330-20-7	With reference to ISO 11423-1, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS		1µg/L															
Toluene	108-88-3	With reference to ISO 11423-1, USEPA 8260 D or HJ 1067		1µg/L															

PIPING PLAN

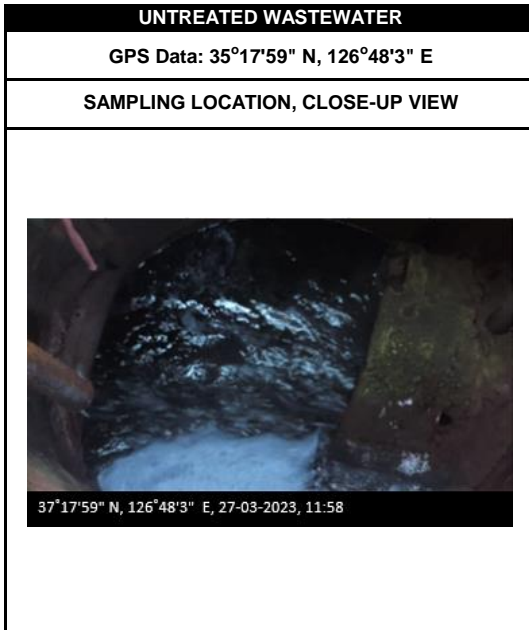
Factory Name: DAESHIN TEXTILE
Factory Address: 16, Haean-ro 397beon-gil, Danwon-gu, Ansan-si, Korea



SAMPLING PHOTOS

Factory Name: DAESHIN TEXTILE

Factory Address: 16, Haean-ro 397beon-gil, Danwon-gu, Ansan-si, Korea



LOCAL WASTEWATER DISCHARGE REQUIREMENT

Water Environment Conservation Act
Wastewater Discharge Permit

Factory Name: DAESHIN TEXTILE

Factory Address: 16, Haean-ro 397beon-gil, Danwon-gu, Ansan-si, Korea

허가 또는 신고번호	폐수배출시설설치				<input checked="" type="checkbox"/> 허가증
공단2005-202호					<input checked="" type="checkbox"/> 신고필증
① 사업장명	대신염직공업(주)	② 사업자등록번호	124-81-11089		
③ 대표자	이재만	④ 법인등록번호	110111-0063688		
⑤ 사업장소재지	안산시 단원구 초지동 659번지		(전화번호: 495-2282)		
⑥ 업종	섬유실업색가공업 (분류번호:)	⑦ 종별	1종		
⑧ 배출시설 일일조업 시간 및 연간가동일	24시간/일, 300일/년	⑨ 방지시설 일일가동 시간 및 연간가동일	24시간/일, 365일/년		
⑩ 폐수배출요인명세					
원료명	사용량	생산제품명	생산량		
	마로	불입			
허가 또는 신고 사항	⑪ 폐수배출공정흐름도 : 마로 불입				
	⑫ 폐수배출 및 처리명세				
	배출시설명	폐수배출량	오염물질 배출항목	폐수처리방법	폐수처리능력
		마	로	불입	
	⑬ 폐수처리계통도 : 해당 없음				
⑭ 허가 또는 신고수리 조건					
1. 수질환경보전법 제만사함을 준수할 것. 2. 폐기물관리법에서 경하고 있는 제만규정을 준수할 것. 3. 완벽한 방지시설을 설치·운영하여 환경오염 방지에 만전을 기할 것.					
수질환경보전법 제10조제1항의 규정에 의하여 배출시설 설치 <input type="checkbox"/> 허가를 수리합니다. <input checked="" type="checkbox"/> 신고					
2005년 05월 경기도지사					