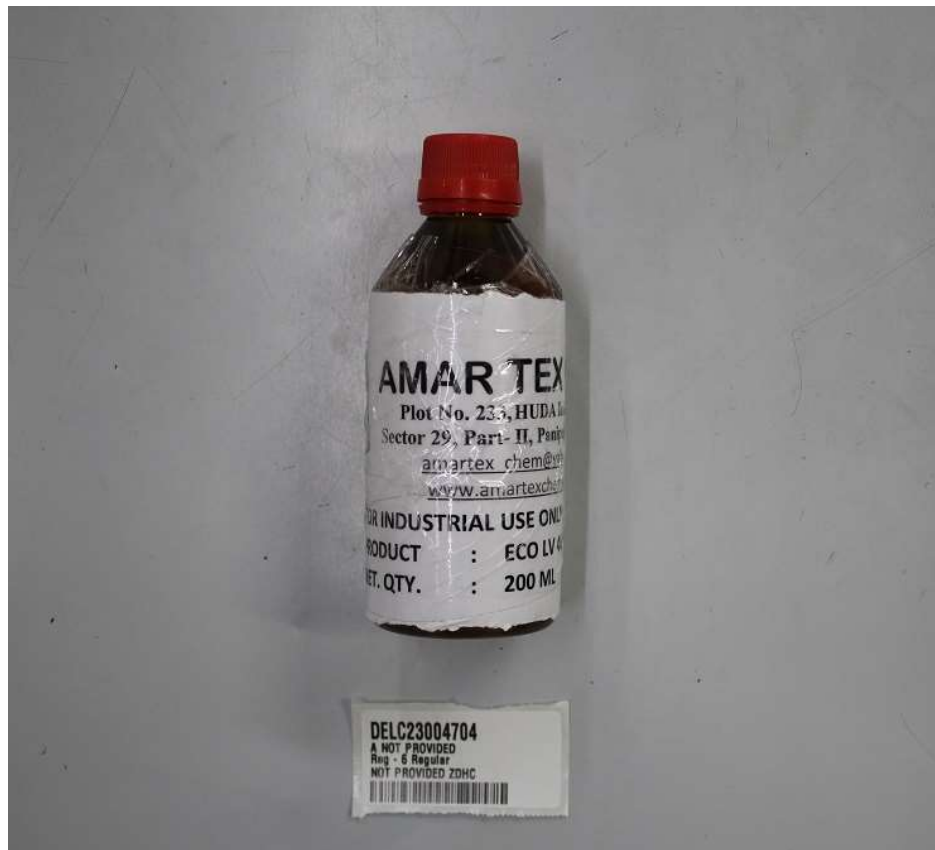


Report Number :

DELC23004704



Intertek India Private Limited

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TEST REPORT

NUMBER : DELC23004704
DATE : 03-May-2023

APPLICANT : Amar Tex Chem
Huda Indl. Area, 233, Sector 29, Part 11,
Panipat, Haryana, 132103, India

ATTN : Vijay Kumar Soni

Sample Description : ECO LV-40 -SPIN FINISH OIL (INDUSTRIAL USE ONLY).

TESTED COMPONENT:

[1] ECO LV-40 -SPIN FINISH OIL (INDUSTRIAL USE ONLY).

Date Received/Date Test Started : 27 Apr 2023
Date Confirmation Received : -
Buyer Name : Not Provided Zdhc
Style No : -
Order No : -
Color : NOT PROVIDED
Fiber Composition : -

TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO ENCLOSED PAGE(S)

CONCLUSION :

AEEA [2-(2-aminoethylamino) ethanol]	M
Glycols	M
Pah	M
Total Heavy Metals	M
Ap/Apeo	M
Flame Retardants	M
Halogenated Solvents	M
PFCs	M

NOTE : M = MEETS REQUIREMENT, F = FAILS TO MEET REQUIREMENT
* = REQUIREMENT NOT PROVIDED, N/A = NOT APPLICABLE

AUTHORIZED BY
FOR Intertek India Private Limited [Analytical - Gurgaon]



RAVINDRA S
LAB MANAGER - C&A

TEST REPORT

NUMBER : DELC23004704
DATE : 03-May-2023

REMARKS

- 1) TESTING PERIOD: 04/27/2023 TO 05/03/2023
- 2) LABORATORY REPORTS THE FINAL TEST RESULTS IN TEST REPORT. ANY ADDITIONAL INFORMATION, IF REQUIRED WILL BE PROVIDED ON REQUEST.
- 3) STATEMENT OF CONFORMITY IS BASED ON THE SIMPLE ACCEPTANCE RULE WITHOUT USING MEASUREMENT UNCERTAINTY.
- 4) TESTING HAS BEEN PERFORMED AS PER ZDHC LEVEL 1 ver 3.1

TEST REPORT

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TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. AEEA [2-(2-aminoethylamino) ethanol]

ZDHC MRS L v3.1 (Level 1)

Solvent extraction, LC MS/MS Analysis

[1]

111-41-1

AEEA [2-(2-aminoethylamino) ethanol]

BDL

Requirement
100 ppm

REMARK:

BDL = BELOW DETECTION LIMIT

DETECTION LIMIT = 10 PPM

PPM = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

2. Glycols

ZDHC MRS L v3.1 (Level 1)

(IHTM) SOLVENT EXTRACTION FOLLOWED BY GC MS ANALYSIS

[1]

2-Ethoxyethanol

BDL

Requirement
<50 ppm

Ethylene Glycol Dimethyl

BDL

<50 ppm

Ether

2-Methoxyethanol

BDL

<50 ppm

2-Methoxyethylacetate

BDL

<50 ppm

2-Methoxypropylacetate

BDL

<50 ppm

Triethylene Glycol

BDL

<50 ppm

Dimethyl Ether

Bis (2-methoxy ethyl)

BDL

<50 ppm

ether

2-Ethoxy ethyl acetate

BDL

<50 ppm

2-Methoxypropanol 1589-47-5

BDL

<50 ppm

REMARK:

BDL = BELOW DETECTION LIMIT

DETECTION LIMIT = 100 PPM

PPM = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

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3. Pah

ZDHC MRSI v3.1 (Level 1)

GC-MS, AfPS GS 2019

[1]

		<u>Requirement</u>
Naphthalene (91-20-3)	BDL	200 ppm
Acenaphthylene (208-96-8)	BDL	200 ppm
Acenaphthene (83-32-9)	BDL	200 ppm
Fluorene (86-73-7)	BDL	200 ppm
Phenanthrene (85-1-8)	BDL	200 ppm
Anthracene (120-12-7)	BDL	200 ppm
Fluoranthene (206-44-0)	BDL	200 ppm
Pyrene (129-00-0)	BDL	200 ppm
Chrysene (218-01-9)	BDL	200 ppm
Benzo [a] Anthracene (56-55-3)	BDL	200 ppm
Benzo [b] fluoranthene (205-99-2)	BDL	200 ppm
Benzo [k] fluoranthene (207-08-9)	BDL	200 ppm
Benzo [j] fluoranthene (205-82-3)	BDL	200 ppm
Benzo [e] pyrene (192-97-2)	BDL	200 ppm
Benzo [a] pyrene (50-32-8)	BDL	20 ppm
Di-benzo [a,h] anthracene (53-70-3)	BDL	200 ppm
Indeno [1,2,3-cd]pyrene (193-39-5)	BDL	200 ppm
Benzo [g,h,i] Perylene (191-24-2)	BDL	200 ppm

REMARK:

BDL = BELOW DETECTION LIMIT

DETECTION LIMIT = 2.0 PPM

PPM = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

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4. Total Heavy Metals

ZDHC MRSI v3.1 (Level 1)

(IHTM) ACID DIGESTION FOLLOWED BY ICP-OES.
WITH REF. EN 16711-1:2015

	[1] <u>Results in Ppm</u>	<u>Requirement</u>
Sol. Antimony [Sb]	BDL	50 ppm
Sol. Arsenic [As]	BDL	50 ppm
Sol. Barium [Ba]	BDL	100 ppm
Sol. Chromium [Cr]	BDL	100 ppm
Sol. Cadmium [Cd]	BDL	20 ppm
Sol. Cobalt [Co]	BDL	500 ppm
Sol. Copper [Cu]	BDL	250 ppm
Sol. Lead [Pb]	BDL	100 ppm
Sol. Mercury [Hg]	BDL	4 ppm
Sol. Nickel [Ni]	BDL	250 ppm
Sol.selenium [Se]	BDL	20 ppm
Sol.tin (Sn)	BDL	250 ppm
Sol. Silver [Ag]	BDL	100 ppm
Sol.chromium Vi [Cr Vi]	BDL	10 ppm

REMARK:

BDL = BELOW DETECTION LIMIT

DETECTION LIMIT 4 ppm FOR MERCURY AND 5 ppm FOR OTHERS ppm = PARTS PER MILLION

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5. Ap/Apeo

ZDHC MRSI v3.1 (Level 1)

With reference ISO 21084/ ISO 18254

		[1]	Requirement
104-40-5	Nonyl	BDL	<100 ppm
Phenol (NP)			
11066-49-2	Nonyl	BDL	
Phenol (NP)			
25154-52-3	Nonyl	BDL	
Phenol (NP)			
84852-15-3	Nonyl	BDL	
Phenol (NP)			
140-66-9	Octyl	BDL	<100 ppm
Phenol (OP)			
1806-26-4	Octyl	BDL	
Phenol (OP)			
27193-28-8	Octyl	BDL	
Phenol (OP)			
9002-93-1		BDL	<250 ppm
Octylphenol ethoxylates (OPEO)			
9036-19-5		BDL	
Octylphenol ethoxylates (OPEO)			
68987-90-6		BDL	
Octylphenol ethoxylates (OPEO)			
9016-45-9		BDL	<250 ppm
Nonylphenol ethoxylates (NPEO)			
26027-38-3		BDL	
Nonylphenol ethoxylates (NPEO)			
37205-87-1		BDL	
Nonylphenol ethoxylates (NPEO)			
68412-54-4		BDL	
Nonylphenol ethoxylates (NPEO)			
127087-87-0		BDL	
Nonylphenol ethoxylates (NPEO)			

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REMARK:

BDL = BELOW DETECTION LIMIT

DETECTION LIMIT = 50 PPM

PPM = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

6. Flame Retardants

ZDHC MRSL v3.1 (Level 1)

Solvent extraction, GC-MS and/or LC-MS

[1]

Decabromodiphenyl ether (DecaBDE)

1163-19-5

BDL

Requirement
250 ppm

Hexabromocyclododecane (HBCDD)

25637-99-4

BDL

Requirement
250 ppm

Tri-o-cresyl phosphate (TOCP)

78-30-8

BDL

Requirement
250 ppm

Tris (2-chloroethyl) phosphate (TCEP)

115-96-8

BDL

Requirement
250 ppm

Tris (chloroisopropyl) phosphate (TCPP)

13674-84-5

BDL

Requirement
250 ppm

Tetrabromobisphenol A (TBBPA)

79-94-7

BDL

Requirement
250 ppm

2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)

3296-90-0

BDL

Requirement
250 ppm

Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)

13674-87-8

BDL

Requirement
250 ppm

Tris-(2,3-dibromopropyl)- phosphate TRIS - TDBPP

126-72-7

BDL

Requirement
250 ppm

Tris - (aziridinyl) - phosphineoxide TEPA

5455-55-1

BDL

Requirement
250 ppm

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Bis(2,3-dibromopropyl) phosphate BBP		
5412-25-9	BDL	<u>Requirement</u> 250 ppm
Bis(2,3-dibromopropyl ether) of tetrabromobisphenol BDBPT		
21850-44-2	BDL	<u>Requirement</u> 250 ppm
Tetrabromodiphenyl ether TetraBDE		
5436-43-1	BDL	<u>Requirement</u> 250 ppm
Hexabromodiphenyl ether HexaBDE		
36483-60-0	BDL	<u>Requirement</u> 250 ppm
Monobromobiphenyl		
(Monobb)	BDL	<u>Requirement</u> 250 ppm
Dibromobiphenyl (Dibb)	BDL	250 ppm
Octabromobiphenyl	BDL	250 ppm
(Octabb)		
Nona Bromobiphenyl	BDL	250 ppm
(Nonabb)		
Decabromobiphenyl	BDL	250 ppm
(Decabb)		
Monobromodiphenyl Ether	BDL	250 ppm
(Monobde)		
Tribromodiphenyl Ether	BDL	250 ppm
(Tribde)		
Pentabromodiphenyl Ether	BDL	250 ppm
(Pentabde)		
Heptabromodiphenyl Ether	BDL	250 ppm
(Heptabde)		
Octabromodiphenyl Ether	BDL	250 ppm
(Octabde)		
Sum of Nonabromodiphenyl	BDL	250 ppm
Ethers (Nonabde)		
Boric acid	BDL	250 ppm
Trixylyl Phosphate (TXP)	BDL	250 ppm
[25155-23-1]		
Trimethyl Phosphate	BDL	250 ppm
Disodium Tetraborate	BDL	250 ppm
Anhydrous (As Boron)		
Disodium Octa Borate (As	BDL	250 ppm
Boron)		

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Diboron Trioxide (As Boron)	BDL	250 ppm
Tetraboron disodium heptaoxide hydrate (As Boron)	BDL	250 ppm

REMARK:
BDL = BELOW DETECTION LIMIT
DETECTION LIMIT = 50 PPM

PPM = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

7. Halogenated Solvents

ZDHC MRSL v3.1 (Level 1)

With Reference ISO/TS 16189:2021 & ISO 19070:2016

[1]

		<u>Requirement</u>
1,2 -Dichloroethane 107-06-2	BDL	<5 ppm
Methylene chloride 75-09-2	BDL	<5 ppm
Trichloroethylene 79-01-6	BDL	<5 ppm
Tetrachloroethylene 127-18-4	BDL	<5 ppm
Benzylchloride 100-44-7	BDL	<100 ppm

REMARK:
BDL = BELOW DETECTION LIMIT
DETECTION LIMIT = 5 PPM
PPM = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

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8. PFCs

PFAS (ZDHC MRL v3.1 (Level 1))

BY LC-MS or GC-MS Analysis with reference CEN/TS 15968, EN17681-1 & 2
[1]

		<u>Requirement</u>
Perfluorooctane Sulfonate (Pfos) and Related Substances	BDL	2000 µg/kg
Perfluorooctanoic Acid (Pfoa)	BDL	PFOA=25 µg/kg PFOA-related substances=100 0 µg/kg
Perfluorobutanoic Acid (Pfba)	BDL	1000 µg/kg
Perfluorohexanoic Acid (Pfhxa)	BDL	PFHxA=25 µg/kg PFHxA-related substances=100 0 µg/kg
Perfluorodecanoic Acid (Pfda)	BDL	1000 µg/kg
Perfluorobutane Sulfonic Acid (Pfbs)	BDL	1000 µg/kg
Perfluorohexane Sulfonic Acid (Pfhxs)	BDL	1000 µg/kg
Perfluorodecane Sulfonic Acid (Pfds)	BDL	1000 µg/kg
1H,1h,2h,2h-perfluorohexane-1-ol (4:2 Ftoh)	BDL	1000 µg/kg
1H,1h,2h,2h-perfluoro-1-octanol (6:2 Ftoh)	BDL	1000 µg/kg
1H,1h,2h,2h-perfluoro-1-decanol (8:2 Ftoh)	BDL	1000 µg/kg
1H,1h,2h,2h-perfluorododecane-1-ol (10:2 Ftoh)	BDL	1000 µg/kg

REMARK:

BDL = BELOW DETECTION LIMIT

DETECTION LIMIT = (For PFOA, PFOS and PFHxA 0.025 mg/kg) (For PFBS, PFHxS, PFDS, PFBA, PFDA, 6:2 FTS, 8:2 FTS and PFOS related substance 0.25mg/kg) (For 6:2 FTA, 6:2 FTMA 8:2 FTA, 8:2 FTMA, Me-PFOA, Et-PFOA, 4:2 FTOH, 6:2 FTOH. 8:2 FTOH and 10:2 FTOH 1.0mg/kg)

TEST REPORT

NUMBER : DELC23004704

DATE : 03-May-2023

END OF THE TEST REPORT

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