

Report Number :

DELC23004703



Intertek India Private Limited

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TEST REPORT

NUMBER : DELC23004703
DATE : 3rd-May-2023

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

ATTN : Vijay Kumar Soni

Sample Description : COTTEX MBO -SPIN FINISH OIL (INDUSTRIAL USE ONLY).

TESTED COMPONENT:

[1] COTTEX MBO -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 : LIGHT BROWN (PARTIALLY TRANSPARENT)

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

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NUMBER : DELC23004703
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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 Version 3.1.

TEST REPORT

NUMBER : DELC23004703
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TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

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

ZDHC MRSI 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 MRSI 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) ether

BDL

<50 ppm

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

TEST REPORT

NUMBER : DELC23004703
DATE : 3rd-May-2023

3. Pah

ZDHC MRSL 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

TEST REPORT

NUMBER : DELC23004703
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4. Total Heavy Metals

ZDHC MRSL 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 MRS L 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)			

TEST REPORT

NUMBER : DELC23004703
DATE : 3rd-May-2023

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

TEST REPORT

NUMBER : DELC23004703
DATE : 3rd-May-2023

Bis(2,3-dibromopropyl) phosphate BBP

5412-25-9	BDL	<u>Requirement</u> 250 ppm
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Bis(2,3-dibromopropyl ether) of tetrabromobisphenol BDBPT

21850-44-2	BDL	<u>Requirement</u> 250 ppm
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Tetrabromodiphenyl ether TetraBDE

5436-43-1	BDL	<u>Requirement</u> 250 ppm
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Hexabromodiphenyl ether HexaBDE

36483-60-0	BDL	<u>Requirement</u> 250 ppm
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Monobromobiphenyl (Monobb)	BDL	<u>Requirement</u> 250 ppm
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Dibromobiphenyl (Dibb)	BDL	250 ppm
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Octabromobiphenyl (Octabb)	BDL	250 ppm
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Nona Bromobiphenyl (Nonabb)	BDL	250 ppm
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Decabromobiphenyl (Decabb)	BDL	250 ppm
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Monobromodiphenyl Ether (Monobde)	BDL	250 ppm
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Tribromodiphenyl Ether (Tribde)	BDL	250 ppm
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Pentabromodiphenyl Ether (Pentabde)	BDL	250 ppm
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Heptabromodiphenyl Ether (Heptabde)	BDL	250 ppm
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Octabromodiphenyl Ether (Octabde)	BDL	250 ppm
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Sum of Nonabromodiphenyl Ethers (Nonabde)	BDL	250 ppm
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Boric acid	BDL	250 ppm
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Trixylyl Phosphate (TXP) [25155-23-1]	BDL	250 ppm
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Trimethyl Phosphate	BDL	250 ppm
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Disodium Tetraborate	BDL	250 ppm
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Anhydrous (As Boron)		
Disodium Octa Borate (As Boron)	BDL	250 ppm

TEST REPORT

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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 MRSI 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 MRSL 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)

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END OF THE TEST REPORT

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