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CERTIFICATE

ZERO DISCHARGE OF HAZARDOUS CHEMICALS PROGRAMME

WE ARE CHEMICAL MANUFACTURER WHO ALWAYS COMMIT TO SAFEGUARD MAN AND ENVIRONMENT.
THEREFORE, WE HIGHLY CONCERN ABOUT THE PRODUCT SAFETY AND ENVIRONMENT IMPACT.

WE HAVE GONE THROUGH THE ZERO DISCHARGE OF HAZARDOUS CHEMICALS (ZDHC) JOINT ROADMAP, ZDHC- MRSI VERSION 1.1, GROUP B : CHEMICAL SUPPLIER COMMERCIAL FORMULATION LIMIT AND HEREBY CONFORM THAT OUR PRODUCTS ARE ACCORDANCE TO THE REQUIREMENTS AS PER DETAILS SHOWN ON THE ENCLOSED SHEETS.

COMPLIANCE CONFORMATION OF THIS CERTIFICATE IS BASED ON OUR GENERAL EXPERIENCE AT THE TIME OF PUBLICATION OF THIS CERTIFICATE AND TESTS ON SAMPLES OF TYPICAL MANUFACTURE.

THE GOODS MUST NOT BE CONTAMINATED AND / OR CHEMICAL REACTION WITH OTHER SUBSTANCES.
THE GOODS MUST ALSO BE USED AT THE SUITABLE QUANTITY WITH PROPER APPLICATION.

REMARK:

THIS CERTIFICATE COVERS TOTAL 4 PAGES INCLUDING THIS COVER SHEET.



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ZDHC-MRSL Version 1.1 Group B : Chemical Supplier Commercial Formulation Limit.

: Target Analytes of Chemical Screening Program

Substances List	Requirement(ppm)	Detection Limit(ppm)	EXF	A	B	C	D+F	E+I	G	H	J
	MRSL	SGS THAILAND	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
1.AP & APEOs		100									
NP , OP	250		ND	ND	ND	ND	ND	ND	ND	ND	ND
NPEO , OPEO	500		ND	ND	ND	ND	ND	ND	ND	ND	ND
2.COCs		100									
1,2 DICB	1000		ND	ND	ND	ND	ND	ND	ND	ND	ND
Sum of Chlorobenzenes and Chlorotoluene	200		ND	ND	ND	ND	(1)	ND	ND	ND	ND
3.Chlorophenols		20									
Sum of PCP ,TeCP	20		ND	ND	ND	ND	ND	ND	ND	ND	ND
Sum of TeCP,TrICP,DCP,MCP	50		ND	ND	ND	ND	ND	ND	ND	ND	ND
4.Dyes-Azo forming restricted amines		100									
25 items/ for individual compound	150		ND	ND	ND	ND	(2)	ND	ND	ND	ND
5.Dyes-Navy Blue		250									
Navy Blue : CAS 118685-33-9	250		ND	ND	ND	ND	ND	ND	ND	ND	ND
Navy Blue : NA	250		ND	ND	ND	ND	ND	ND	ND	ND	ND
6.Dyes-Carcinogenic or equivalent concern		250									
14 items/ for individual compound	250		ND	ND	ND	ND	ND	ND	ND	ND	ND
7.Dyes-Allergenic Disperse Dyes		250									
18 items/ for individual compound	250		ND	ND	ND	ND	ND	ND	ND	ND	ND
8.Chlorinated Paraffin		50									
Short Chain Chlorinated Paraffins (SSCP)with C10-C13	50		ND	ND	ND	ND	ND	ND	ND	ND	ND
9.Flame Retardants		250									
12 items/ for individual compound	250	HBCDD 100	ND	ND	ND	ND	ND	ND	ND	ND	ND
10.Glycols		50									
8 items/ for individual compound	50		ND	ND	ND	ND	ND	ND	ND	ND	ND
11.Halogenate Solvents											
Trichloroethylene	40	40	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene(PERC)	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane , Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

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ZDHC-MRSL Version 1.1 Group B : Chemical Supplier Commercial Formulation Limit.

: Target Analytes of Chemical Screening Program

Substances List	Requirement(ppm)		Detection Limit(ppm)		EXF RESULT	A RESULT	B RESULT	C RESULT	D+F RESULT	E+I RESULT	G RESULT	H RESULT	J RESULT
	MRSL	SGS THAILAND	SGS THAILAND										
12.Oganotin Compounds			5										
DBT	20				ND	ND	ND	ND	ND	ND	ND	ND	ND
11.items/ for individual compound	5				ND	ND	ND	ND	ND	ND	ND	ND	ND
13.PAHs			BaP 20										
BaP	20		Others 100		ND	ND	ND	ND	ND	ND	ND	ND	ND
Sum of PAHs	200				ND	ND	ND	ND	ND	ND	ND	ND	(3)
14.PFCs			2										
PFOS , PFOA	2				ND	ND	ND	ND	ND	ND	ND	ND	ND
15.Pthalates			100										
Sum of all Phthalates	250				ND	ND	ND	ND	ND	ND	ND	ND	ND
16.Total Heavy Metals													
Hq	4		4		ND	ND	ND	ND	ND	ND	ND	ND	ND
CrVI	10		5		ND	ND	ND	ND	ND	ND	ND	ND	ND
Cd	20		20		ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb	100		100		ND	ND	ND	ND	ND	ND	ND	ND	ND
As	5		50		ND	ND	ND	ND	ND	ND	ND	ND	ND
17.VOCs													
Benzene	50		50		ND	ND	ND	ND	ND	ND	ND	ND	ND
m-o-p -Xylene	500		500		ND	ND	ND	ND	ND	ND	ND	ND	ND
m-o-p -cresol	500		500		ND	ND	ND	ND	ND	ND	ND	ND	ND

Remark : (1) GROUP D + F : Monochlorobenzene 27.5 ppm (PASS)

(2) GROUP D + F : ROSE FR (Detected 4-chloroaniline 366ppm) ,

RED PB , RED PBN , RED KB , CRIMSON ECO-AK , ROSE FB (ND)(PASS)

BORDEAUX RR ,BORDEAUX FRT , BORDEAUX BCS (ND)(PASS)

(3) GROUP I : Acenaphthylene 3.25 ppm, Fluoranthene 4.76 ppm ,Pyrene 20.30 ppm , Naphthalene 3.04 ppm (Sum 31.4 ppm)(PASS)

PINK FBL , PINK FBL CONC.(Detected 4-chloroaniline 390 ppm)

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Appendix : A	Product Group name
GROUP (EXF) EUROMIN FLUORESCENT PIGMENT RESIN COLOUR	
LEMON YELLOW EXF 08A, YELLOW EXF 15A, ORANGE EXF 14, BRILLIANT GREEN EXF 11, GREEN EXF 12 RED EXF 13, PINK EXF 17, ROSE EXF 27, RUBINE EXF 37, MAGENTA EXF 47, VIOLET EXF 67, VIOLET EXF 69, BRILLIANT BLUE EXF 77, BLUE EXF 18	
GROUP (A) EUROMIN PIGMENT RESIN COLOUR	
GOLD YELLOW RR, GOLD YELLOW 3R, GOLD YELLOW KRR, YELLOW FRH, YELLOW KGS, YELLOW KGN, YELLOW KGR, YELLOW KM, YELLOW KT YELLOW GS CONC, YELLOW GN CONC, YELLOW GS, YELLOW 3GS, YELLOW P2G, YELLOW P3G, YELLOW PRE, YELLOW HR, YELLOW 2R CONC, BROWN RR	
GROUP (B) EUROMIN PIGMENT RESIN COLOUR	
ORANGE R, ORANGE G, ORANGE GLT, ORANGE FF2R, ORANGE PGR, ORANGE PRG, ORANGE KG CONC BROWN GRF, BROWN PBL, BROWN FR	
GROUP (C) EUROMIN PIGMENT RESIN COLOUR	
RED TRC, RED K3RN, RED PGC, RED KBH RED RB, RED PF-S, RED RHB, RED PGN, SCARLET FF2G	
GROUP (D)+ (F) EUROMIN PIGMENT RESIN COLOUR	
RED PB, RED PBN, RED KB, CRIMSON ECO-AK, ROSE FB (1) ROSE FR, PINK FBL, PINK FBL CONC. (1), (2) BORDEAUX RR, BORDEAUX FRT, BORDEAUX BCS (1)	
GROUP (E)+(I) EUROMIN PIGMENT RESIN COLOUR	
RED FFB, RED FF2B, RED E3BS, RED VIOLET P3B, PINK P3BL, PINK PE3B VIOLET BL, VIOLET BLC, VIOLET PB, VIOLET PBN, VIOLET PFB, VIOLET CP NEW, VIOLET HC, VIOLET MS02, VIOLET MS03 CONC, VIOLET MS09	
GROUP (G) EUROMIN PIGMENT RESIN COLOUR	
BLUE FFR, BLUE FFGB, BLUE FFG, BLUE FGG, BLUE FBC, BLUE FBCH, BLUE FBLT, BLUE F2GN, BLUE CLA, BLUE KRC, BLUE KRH, BLUE KG CONC, BLUE KGS, BLUE B01, BLUE B02, DARK BLUE ECO, BLUE TG, BLUE HS, BLUE PB, BLUE PBG, BLUE PRR, SKY BLUE PF 7, TURQUOISE BLUE GGS, TURQUOISE BLUE CP, TURQUOISE BLUE PGT, NAVY BLUE RL, NAVY BLUE PBC, NAVY BLUE PWN, NAVY BLUE AK-RR	
GROUP (H) EUROMIN PIGMENT RESIN COLOUR	
GREEN FB, GREEN FBN, GREEN B 7, GREEN FGG, GREEN FGG H/C, GREEN PG 125, GREEN KG CONC	
GROUP (J) EUROMIN PIGMENT RESIN COLOUR	
BLACK C, BLACK CK, BLACK K 38 (3) BLACK KNC, BLACK KSN, BLACK MS 40, BLACK NJ, BLACK TNJ (3)	

Remark : (1) GROUP D + F : Monochlorobenzene 27.5 ppm (PASS)

(2) GROUP D + F : ROSE FR (Detected 4-choloroaniline 366ppm),

PINK FBL, PINK FBL CONC. (Detected 4-choloroaniline 390 ppm)

RED PB, RED PBN, RED KB, CRIMSON ECO-AK, ROSE FB (ND)(PASS)

BORDEAUX RR, BORDEAUX FRT, BORDEAUX BCS (ND)(PASS)

(3) GROUP J : Acenaphthylene 3.25 ppm, Fluoranthene 4.76 ppm, Pyrene 20.30 ppm, Naphthalene 3.04 ppm (Sum 31.4 ppm)(PASS)

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