

THE VARNER GROUP SUPPLIER REQUIREMENTS MANUAL

Part III. RESTRICTED SUBSTANCES LIST

Version 01.2015

The Varner Group Supplier Requirements Manual – Part III, Restricted Substances List; concern the environment, working conditions and safe handling of chemicals during production and to be able to offer our customers products without harmful chemicals.

The list of restricted substances applies to all our suppliers and their sub-contractors. All suppliers of raw materials, ginning mills, spinning mills, knitting and weaving mills, laundries, tanneries, dye houses, printing facilities or garment factories must follow our requirements.



COMPANIES WITHIN THE VARNER GOUP

BIK BOK
CARLINGS
CUBUS
DRESSMANN
DRESSMANN XL
SOLO
URBAN
VIVIKES
VOLT
WEARHOUSE
WOW

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III. CHEMICAL SUBSTANCES

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Last up-dated June 15

3.1 Safe Handling of Chemical Substances

List of Chemicals

All suppliers to the Varner Group must keep record of all chemical substances used in production and all associated processes. This list shall include name of the chemical product, the purpose/area of use and a reference to a Material Safety Data Sheet (MSDS).

Suppliers can and will be asked to submit this list to CSR or an accredited auditor for inspection.

The buying departments reserve the right to ask for additional documentation, showing the chemicals that have been used during production.

Written Policy

Suppliers shall have a written procedure for the procurement, storage, handling and use of chemicals. This must include guidelines on safe handling and use, with specific emphasis on hazardous chemicals. In addition a qualified person in charge will be appointed the responsibility to implement measures in accordance with these requirements.

Competence and Training

Employees that procure, store, handle and use chemicals must have the right knowledge and be sufficiently trained for this task. This is of the responsibility of supplier and records from training shall be kept.

Storage

Chemical storage areas require specific design and equipment such as construction materials, lighting, ventilation and fire extinguishers. Storage of liquid chemicals shall be free of drainage holes and protected by sills. Storage area must include first aid kits and eyewash equipment. Additional requirements apply to chemicals that are classified as flammable or combustible liquids.

Hazardous Waste Disposal

Suppliers shall have a policy for disposing hazardous waste materials. Hazardous waste must not be allowed to accumulate in nature. The collection of hazardous waste must be arranged through certified firms. The frequency of collection is dependent upon the type and amount of waste generated. Suppliers shall keep a record of all waste collections.

3.2 General Requirements for all material

REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) – **SVHC** (Substance of Very High Concern)

Products produced to the Varner Group can not contain more than 1000 mg/ kg of substances on the SVHC list. If substances are stated both in the Varner Group RSL and in the SVHC list, the Varner Group requirements should be followed.

PBT, vPvB, CMR or ED

Substances defined as persistent, bioaccumulative and toxic (**PBT**), very persistent and very bioaccumulative (**vPvB**), carcinogenic, mutagenic and toxic for reproduction (**CMR**), endocrine disruptors (**ED**) or equivalent concern cannot exceed 1000 mg/kg in a product. If a specific substance is stated both in the Varner Group RSL and as PBT, vPvB, CMR or ED, the Varner Group requirements must be followed. ¹

Antibacterial Treatment

All antibacterial treatments on finished products are banned by Varner Group. If any questions, please contact quality@varner.no

Mould

Spores and mycelia of mould cannot be detected

¹Laws and regulations of countries that products will be sold at must be followed.

3.3 List of Restricted Substances

Table 1 provides a quick review of the major restricted substances and the risk level associated with each substance for different materials. **Table 2 & 3** are extensive lists. Those lists show restricted substances and the maximum concentrations.

DEFINITIONS IN TABLE 2 & 3

CAS No - For every substance, the list states the identification number (CAS No) according to Chemical Abstract Services

++ - The ++ sign shows that names and CAS number for each substance in this group are specified in Appendix 1-10.

Various – Is stated instead of CAS number, the substance has several substances and CAS numbers covered by the specification.

Detection Limit - Is defined as the lowest possible value that can be found during testing with a specific test method. Whenever test methods have been revised and the detection limit has been changed, the new detection limit must be followed.

Not Detected - Substance stated with “Not Detected” as a requirement cannot be found above the Detection Limit.

Banned - When a substance is defined as “Banned” this means that the substance cannot be used during production. Those substances cannot be present in the product over the Detection Limit.

Limit value – Limit values are based on the highest allowed content of the substance per kilogram article or part thereof

RELATIONSHIP BETWEEN UNITS USED BY LABORATORIES

1000 mg/kg equals	1000	ppm	(parts per million)
	1 000 000	µg/kg	(microgram per kilogram)
	0,1	%	(by weight)

SYMBOLS

> - Greater than

≥ - Greater than or equal to

< - Less than

≤ - Less than or equal to

Table 1 – Summary of the major restricted substances and the risk level associated with each of them for different materials

	Material						
	Textiles - Natural Fibres	Textiles - Synthetic Fibres	Textiles - Blend Fibres	Plastics, Rubber	Coating, Prints	Leather	Metal
Allergenic Dyestuffs		●	●		●	○	
APEO	●	●	●	●	●	●	
Azo Colorants	●	●	●		●	●	
Bisphenol A and other bisphenol isomers				●	●		
Carcinogenic Colorants	●	●	●		●	●	
Chlorinated Aromatic Hydrocarbons		●	●				
Chlorinated Paraffins				●	○	●	
Chlorinated Phenols	○		○		○	●	
Chromium VI	○	○				●	
Dimethyl Fumarate - <i>DMFu</i>	○	○	○	○	○	●	
Extractable Heavy Metals	●	●	●	○		●	○
Flame Retardants *	○	○	○	○			
Formaldehyde	●	●	●		●	●	
Isocyanates				○	●		
Nickel							●
Organic Solvents				○	●	○	
Organotin Compounds **	○	○	○	●	○	○	
PAHs				●	○	○	
PCB & PCT				○	○		
Pesticides	○		○			○	
PFOA & PFOS ***					○	○	
Phthalates		○	○	●	●		
PVC				●	●		
Quaternary Ammonium Salts	○	○	○				
Total Cadmium				●	●		●
Total Lead				●	●	●	●

● The risk level associated with the chemical substance is very high

○ The risk level associated with the chemical substance is high.

* If treated with flame retardants

** Includes biocides and stabilizers

*** If treated with water and soil repellent finishing

Table 2–Extensive list of restricted substances

All orders for the Varner Group must comply with all requirements in Table 2.

Please note, unless otherwise is stipulated in the Restricted Substances List, all suppliers are required to follow the EU regulatory framework for Chemicals.

FAMILY OF CHEMICAL SUBSTANCES	CAS No	LIMIT		TEST METHODS
		Children <3 yrs	Adults & Children >3 yrs	
ALKYLPHENOL ETHOXYLATES				
ALKYLPHENOL ETHOXYLATES (APEO)				
Nonylphenol Ethoxylates (NPEO)	Various	Total content should not exceed 100 mg/kg		Solvent extraction followed by GC-MS or LC-MS
Octylphenol Ethoxylates (OPEO)	Various			
Nonylphenol (NP)	Various	Not detected, detection limit 10 mg/kg		
Octylphenol (OP)	Various			
BIOCIDES				
BIOCIDES				
Biocides ²	++	Not detected during testing		Solvent Extraction followed by GC-MS
BISPHENOL-A				
BISPHENOL A (BPA)				
BPA	80-05-7	Banned, detection limit 1 mg/kg for textile; 5 mg/kg for plastics		Solvent extraction followed by GC-MS or LC-MS
Other bisphenol isomers	Various			
CHLORINATED AROMATIC HYDROCARBONS				
CHLORINATED BENZENES, TOLUENES, NAPHTALENES & XYLENES ³				
Chlorinated benzenes	++	Total content should not exceed 1 mg/kg		DIN 54232
Chlorinated naphthalenes	++			
Chlorinated toluenes	++			
Chloroxylenes	++			
CHLORINATED & OTHER PHENOLS				
CHLORINATED & OTHER PHENOLS				
2-Phenylphenol (OPP)	90-43-7	50 mg/kg		Textile: KOH extraction § 64 LFGB B82.02-8 Leather: KOH extraction ISO 17070
Chlorinated phenols and its salts and esters	Various	Not detected, detection limit 0.05 mg/kg for each	Not detected, detection limit 0.5 mg/kg for each	
Tetrachlorophenol and its salts and esters (TeCP)	Various			
Pentachlorophenol and its salts and esters (PCP)	87-86-5			
CHLOROPARAFFINS				
CHLOROPARAFFINS				
Short chained chlorinated paraffins (SCCPs) C10-C13	85535-84-8	Banned, detection limit 100 mg/kg		GC-MS or LC-MS
Medium chained chlorinated paraffins (MCCPs) C14-C17	85535-85-9	1000 mg/kg for each		
Long chained chlorinated paraffins C18 – C28	85535-86-0			
DIMETHYLFUMARATE				
DIMETHYLFUMARATE – DMFu				
Dimethylfumarate (DMFu)	624-49-7	Banned, detection limit 0,1 mg/kg		GC-MS

² Appendix 1 - Biocides

³ Appendix 2 - Chlorinated aromatic hydrocarbons

FAMILY OF CHEMICAL SUBSTANCES	CAS No	LIMIT		TEST METHODS
		Children <3 yrs	Adults & Children >3 yrs	
DYES				
AZO COLORANTS – releasing following arylamines				
Azo Colorants – releasing following arylamines ⁴	++	Not Detected, detection limit 20 mg/kg*		Textile: EN 14362-1/3 Leather: ISO 17234-1/2
CARCINOGENIC COLORANTS				
Carcinogenic Colorants ⁵	++	Not Detected, detection limit 50 mg/kg*		DIN 54231 (only disperse dyes) EN 16373 (all extractable dyes)
ALLERGENIC DYESTUFFS				
Allergenic Disperse Dyes ⁶	++	Not Detected, detection limit 50 mg/kg*		DIN 54231 (only disperse dyes) EN 16373 (all extractable dyes)
OTHER DYES				
Other Dyes ⁷	++	Not Detected, detection limit 20 mg/kg*		DIN 54231 (only disperse dyes) EN 16373 (all extractable dyes)
FLAME RETARDANTS				
FLAME RETARDANTS				
Flame retardants ⁸	++	Banned, detection limit 5 mg/kg for each		GC-MS or LC-MS
FORMALDEHYDE				
FORMALDEHYDE				
Formaldehyde	50-00-0	Not detected, detection limit 16 mg/kg	75 mg/kg (in direct skin contact) 300 mg/kg (with no direct skin contact)	Textile: ISO 14184: 1 Leather: ISO 17226 -2

⁴ Appendix 3 – Azo Dyes & Pigments

⁵ Appendix 4 – Carcinogenic Dyes

⁶ Appendix 5 – Allergenic disperse dyes

⁷ Appendix 6 – Other Dyes

⁸ Appendix 7 – Flame Retardants

FAMILY OF CHEMICAL SUBSTANCES	CAS No	LIMIT		TEST METHODS
		Children <3 yrs	Adults & Children >3 yrs	
METAL & METAL COMPOUNDS				
EXTRACTABLE HEAVY METALS				
Antimony and its compounds	7440-36-0	5 mg/kg	30 mg/kg	Extractable with sweat solution by ISO 105 E04 by ICP-OES or ICP-MS
Arsenic and its compounds	7440-38-2	0,20 mg/kg	1,0 mg/kg	
Barium and its compounds	7440-39-3	10 mg/kg		
Cadmium and its compounds	7440-43-9	0.10 mg/kg		
Chromium and its compounds	7440-47-3	1 mg/kg	2 mg/kg	
Chromium(VI) and its compounds	18540-29-9	Not detected, detection limit 0.5 mg/kg		
Cobalt and its compounds	7440-48-4	1,0 mg/kg	4,0 mg/kg	
Copper and its compounds	7440-50-8	25,0 mg/kg	50,0 mg/kg	
Lead and its compounds	7439-92-1	0,2 mg/kg	1,0 mg/kg	
Mercury and its compounds	7439-97-6	0.02 mg/kg		
Nickel and its compounds	7440-02-0	1,0 mg/kg	4,0 mg/kg	
Silver and its compounds	7440-22-4	0,10 mg/kg		
Zinc and its compounds	7440-66-6	60 mg/kg		
METAL & METAL COMPOUNDS				
TOTAL HEAVY METALS				
Antimony and its compounds	7440-36-0	260 mg/kg		ICP-OES and/or ICP-MS
Cadmium and its compounds	7440-43-9	40 mg/kg	75 mg/kg	
Lead and its compounds	7439-92-1	45 mg/kg	90 mg/kg	
METAL & METAL COMPOUNDS				
CHROMIUM VI				
Chromium(VI) and its compounds	18540-29-9	Not Detected, detection limit 3 mg/kg		Leather: EN ISO 17075 Test after ageing (24 hours at 80 °C & <5% humidity)
METAL & METAL COMPOUNDS				
NICKEL				
Nickel and its compounds	7440-02-0	<0,5 µg/cm ² /week (articles in skin contact)		Not coated item: EN 1811:2011
		<0,2 µg/cm ² /week (pierced part)		Coated item: EN 1811:2011 + EN 12472
ISOCYANATES				
ISOCYANATES				
Diphenylmethane diisocyanate (MDI)	101-68-8 26447-40-5 5873-54-1	Not detected, detection limit 10 mg/kg for each		ISO 10283
Hexamethylene diisocyanate (HDI)	822-06-0			
Isophorone diisocyanate	4098-71-9			
Tetramethylxylene diisocyanate	2778-42-9			
Toluene-2,4-diisocyanate	584-84-9 91-08-7 26471-62-5			

FAMILY OF CHEMICAL SUBSTANCES	CAS No	LIMIT		TEST METHODS
		Children <3 yrs	Adults & Children >3 yrs	
MISCELLANEOUS				
MISCELLANEOUS				
Miscellaneous ⁹	++	Shall not be used in production		If tested, ask your buyer for information
ORGANIC SOLVENTS				
ORGANIC SOLVENTS				
Organic Solvents ¹⁰	++	Not detected, detection limit 5 mg/kg for each		GC-MS or GD-ECD
N,N-Dimethylformamide	68-12-2	30 mg/kg		
ORGANOTIN COMPOUNDS				
ORGANOTIN COMPOUNDS				
Organotin Compounds ¹¹	++	0,5 mg/kg for each	1,0 mg/kg for each	ISO 17353 analysis with GC-MS
PESTICIDES				
PESTICIDES				
Pesticides ¹²	++	Total content should not exceed 1 mg/kg		Solvent Extraction followed by GC-MS
POLYCHLORINATED COMPOUNDS				
POLYCHLORINATED COMPOUNDS				
Polychlorinated biphenyls (PCB)	1336-36-3 ++	Total content should not exceed 0,5 mg/kg		Extraction followed by GC-MS or LC-MS
Polychlorinated terphenyls (PCTs)	61788-33-8 ++			
PERFLUORATED HYDROCARBONS				
PERFLUORATED HYDROCARBONS				
Perfluorooctane sulfonates (PFOS) and PFOS compounds	Various	Banned, detection limit 1 µg/m ² for each		Solvent extraction, LC-MS MS analysis
Perfluorooctane acid (PFOA) and higher homologues	335-67-1			
PHTHALATES				
PHTHALATES				
Phthalates ¹³	++	Banned, detection limit 100 mg/kg for each phthalate		EN ISO 14389 analysis with GC-MS or LC-MS

⁹ Appendix 8 - Miscellaneous

¹⁰ Appendix 9 – Organic Solvents

¹¹ Appendix 10 – Organotin Compounds

¹² Appendix 11 - Pesticides

¹³ Appendix 12 - Phthalates

FAMILY OF CHEMICAL SUBSTANCES	CAS No	LIMIT		TEST METHODS
		Children <3 yrs	Adults & Children >3 yrs	
POLYCYCLIC COMPOUNDS				
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)				
PAH ¹⁴	++	0,5 mg/kg for each PAH. Total amount should not exceed 10.0 mg/kg	1 mg/kg for each PAH. Total amount should not exceed 10.0 mg/kg	ISO 21461
POLYVINYLCHLORIDE (PVC)				
POLYVINYLCHLORIDE (PVC)				
Polyvinylchloride (PVC)	9002-86-2	Banned		FTIR
Polyvinylidenchloride	9002-85-1			
QUATERNARY AMMONIUM SALTS				
QUATERNARY AMMONIUM SALTS				
Dihydrogenated tallowdimethyl ammoniumchloride (DHTDMAC)	61789-80-8	Banned in production		Solvent extraction LC-MS-MS
Ditallowdimethyl ammoniumchloride (DTDMAC)	68783-78-8			
Distearyldimethyl ammoniumchloride (DODMAC; DSDMAC)	107-64-2			
OTHER				
pH VALUE				
Clothing and textiles for babies or that come in direct contact with skin: pH 4,0-7,5 Clothing and textiles that do not come into direct contact with skin: pH 4,0-9,0 Leather products: pH 3,5-7,0 Down: 6,6 – 8,0				Textile: ISO 3071 Leather: ISO 4045

3.4 List of Restricted Substances – Packaging

Table 3 –Extensive list of restricted substances - Packaging

PAPER			
PAPER			
Formaldehyde	50-00-0	150 mg/kg	EN 1541
Total heavy metals Cadmium, Lead, Chromium VI and Mercury	Various	Total content should not exceed 100 mg/kg	Acid digestion, analysis by ICP-AES and / or ICP-MS
PFOS	Various	Banned	Solvent extraction followed by LC-MS
PFOA	Various		
PLASTIC			
PLASTIC			
Total heavy metals Cadmium, Lead, Chromium VI and Mercury	Various	Total content should not exceed 100 mg/kg	Acid digestion, analysis by ICP-AES and / or ICP-MS
Organotin compounds ¹⁵	++	1 mg/kg for each	ISO 17353 by GC-MS
PVC	9002-86-2	Banned	
Phthalates	++	Not detected, detection limit 100 mg/kg for each phthalate	GC-MS

¹⁴ Appendix 13 – Polycyclic Aromatic Hydrocarbons

¹⁵ Appendix 10 – Organotin Compounds

3.5 Appendix – Chemical Substances

APPENDIX 1

BIOCIDES	CAS NO
Ethyltrianol	107534-96-3
1,2-benzisothiazol 3(2H)one	2634-33-5
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3	60207-90-1
2-bromo-2-nitropropane-1,3 diol	52-51-7
2-octyl-2H-isothiazol-3-one	26530-20-1
Aluminum sodium silica silver complex	130328-18-6
Aminium sodium silica silver complex	130328-20-0
Chitosan	9012-76-4
Chlorocresol	59-50-7
Disodium tetraborate, anhydrous	1330-43-4, 12179-04-3, 1303-96-4
Permethrin	52645-53-1
Silver chloride	7783-90-6
Silver sodium hydrogen zirconium	422-570-3
Silver-zink-aluminium-borfosfatglas	398477-47-9
Sodium 2-biphenylate	132-27-4
Sodium methylthiocarbamate	137-42-8
Sulphuryl difluoride	2699-79-8
TCMTB	21564-17-0
Thiabendazole	148-79-8
Thiram	137-26-8
Triclosan	3380-34-5

APPENDIX 2

CHLORINATED AROMATIC HYDROCARBONS	CAS NO
1,2-Dichlorobenzene	95-50-1
1,2-Dichlorobenzene-D4	2199-69-1
1,3-Dichlorobenzene	541-73-1
1,4-Dichlorobenzene	106-46-7
Trichlorobenzenes	12002-48-1
1,2,4-Trichlorobenzene	120-82-1
1,2,3-Trichlorobenzene	87-61-6
1,3,5-Trichlorobenzene	108-70-3
1,2,3,4-Tetrachlorobenzen	634-66-2
1,2,3,5- Tetrachlorobenzen	634-90-2
1,2,4,5- Tetrachlorobenzen	95-94-3
Hexachlorobenzenes	118-74-1
Pentachlorobenzenes	608-93-5
Monochlorobenzenes	108-90-7
Dichloromethylbenzene	98-87-3
2,4,5-Trichlorotoluene	6639-30-1
Dichlorotoluenes	29797-40-8
2,6-Dichlorotoluene	118-69-4
3,4-Dichlorotoluene	95-75-0
2,4-Dichlorotoluene	95-73-8
a,2,6-trichlorotoluene	2014-83-7
a,a,2,6- tetrachlorotoluene	81-19-6
2-Chlorotoluene	95-49-8
3-Chlorotoluene	108-41-8
4-Chlorotoluene	106-43-4
2,3,4,5,6-Pentachlorotoluene	877-11-2

CONTINUE APPENDIX 2- CHLORINATED AROMATIC HYDROCARBONS

CHLORINATED AROMATIC HYDROCARBONS	CAS NO
a,a,a-Trichlorotoluene	98-07-7
Tetrachloroethylene	127-18-4
a,a-Dichlorotoluene	98-87-3
a,o-Dichlorotoluene	611-19-8
a,p-Dichlorotoluene	104-83-6

APPENDIX 3

AZO COLORANTS	CAS NO
Biphenyl-4-amine	92-67-1
Benzidine	92-87-5
o-Aminoazotoluene	97-56-3
5-Nitro-o-toluidine	99-55-8
4-chloroaniline	106-47-8
4-methoxy-m-phenylenediamine	615-05-4
4,4'-Diaminodiphenylmethane (MDA)	101-77-9
3,3-Dichlorobenzidine	91-94-1
o-Dianisidine	119-90-4
4,4'-bi-o-toluidine	119-93-7
4,4'-methylenedi-o-toluidine	838-88-0
p-Cresidine	120-71-8
4-Chloro-o-toluidine	95-69-2
2-Naphthylamine	91-59-8
4,4'- methylene-bis-[2-chloro-aniline]	101-14-4
4,4'-oxydianiline	101-80-4
4,4'-thiodianiline	139-65-1
o-Toluidine	95-53-4
4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-Anisidine	90-04-0
2,4-xylidine	95-68-1
2,6-xylidine	87-62-7
4-Aminoazobenzene	60-09-3

APPENDIX 4

CARCINOGENIC COLORANTS	CAS NO
C.I. Acid Red 73	5413-75-2
C.I. Acid Red 26	3761-53-3
C.I. Acid Red 114	6459-94-5
C.I. Basic Red 9	569-61-9
C.I. Basic Violet 3	548-62-9
C.I. Basic Violet 14	632-99-5
C.I. Basic Blue 26	2580-56-5
C.I. Direct Black 38	1937-37-7
C.I. Direct Blue 1	2610-05-1
C.I. Direct Blue 6	2602-46-2
C.I. Direct Blue 15	2429-74-5
C.I. Direct Red 28	573-58-0
C.I. Direct Brown 95	16071-86-6
C.I. Disperse Orange 11	82-28-0
C.I. Disperse Orange 149	85136-74-9
C.I. Disperse Yellow 3	2832-40-8

CONTINUE APPENDIX 4 - CARCINOGENIC DYES

CARCINOGENIC DYES	CAS NO
C.I. Disperse Blue 1	2475-45-8
C.I. Solvent Blue 4	6786-83-0
Michler's base	101-61-1
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
Pigments orange 13	3520-72-7
Pigment Yellow 83	5567-15-7

APPENDIX 5

ALLERGENIC DYESTUFFS	CAS NO
C.I. Disperse Black 2	6232-57-1
C.I. Disperse Blue 1	2475-45-8
C.I. Disperse Blue 3	2475-46-9
C.I. Disperse Blue 7	3179-90-6
C.I. Disperse Blue 26	3860-63-7
C.I. Disperse Blue 35	12222-75-2
C.I. Disperse Blue 102	12222-97-8
C.I. Disperse Blue 106	12223-01-7
C.I. Disperse Blue 124	61951-51-7
C.I. Disperse Brown 1	23355-64-8
C.I. Disperse Orange 1	2581-69-3
C.I. Disperse Orange 3	730-40-5
C.I. Disperse Orange 37/59/76	13301-61-6
C.I. Disperse Orange	51811-42-8
C.I. Disperse Orange 149	85136-74-9
C.I. Disperse Red 1	2872-52-8
C.I. Disperse Red 7	4540-00-5
C.I. Disperse Red 11	2872-48-2
C.I. Disperse Red 17	3179-89-3
C.I. Disperse Yellow 1	119-15-3
C.I. Disperse Yellow 3	2832-40-8
C.I. Disperse Yellow 9	6373-73-5
C.I. Disperse Yellow 39	12236-29-2
C.I. Disperse Yellow 49	54824-37-2
C.I. Disperse Yellow 54	7576-65-0

APPENDIX 6

OTHER DYES	CAS NO
C.I. Acid Red 5	5858-63-9
C.I. Acid Black 194	61931-02-0
C.I. Acid Blue 113	3351-05-1
C.I. Basic Green 1	633-03-4
C.I. Basic Green 4	569-64-2, 18015-764
C.I. Basic Red 46	62163-53-5, 12221-69-1
C.I. Disperse Yellow 23	6250-23-3
Navy Blue	118685-33-9
4,4''''-bis(dimethylamino)benzophenone	90-94-8
Carbon Black or Pigment black 7	1333-86-4

APPENDIX 7

FLAME RETARDANTS	CAS NO
2,2-Bis(bromomethyl)-1,3-propanediol 2-Propanol, 1-chloro-, phosphate (3:1) (TCPP)	3296-90-0 13674-84-5
Antimony(III) oxide	1309-64-4
Bis(2,3-dibromopropyl)phosphate	5412-25-9
Dimethyl methylphosphonate (DMMP)	756-79-6
Hexabromobiphenyl	36355-01-8
Boric acid	10043-35-3, 11113-50-1
Hexabromocyclododecane (HBCDD)	3194-55-6, 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8
Polybrominated diphenyl ether (PBDE)	Various
Phosphoric acid, methylphenyl	26444-49-5
Phosphonium tetrakis(hydroxymethyl)-chloride	124-64-1
Phosphonium tetrakis(hydroxymethyl)-sulphate (2:1)salt	55566-30-8
Phosphoric acid, (1,1-dimethylethyl)phenyl diphenylester	56803-37-3
Phosphoric acid, 2,2-bis(chloromethyl)-1,3propanediyl tetrakis(2chloroethyl)ester	38051-10-4
Polybrominated Biphenyls (PBB)	59536-65-1
Tetrabromobisphenol A (TBBP A)	79-94-7
Triallyl phosphate	1623-19-4
Tricresyl phosphate (TCP)	1330-78-5
Tri-o-cresyl phosphate	78-30-8
Tris(1,3-dichloroisopropyl)phosphate(TDCP)	13674-87-8
Triphenyl phosphate (TPhP)	115-86-6
Tris(1-aziridinyl)phosphine oxide (TEPA)	5455-55-1
Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8

APPENDIX 8

MISCELLANEOUS	CAS NO
2,4-Dinitrotoluene	121-14-2
DTPA	140-01-2
Ethylenediaminetetraacetic-acid, EDTA	60-00-4
Formamide	75-12-7
8:2 FTOH	678-39-7
1,1,1-Trichloro-2-propanone	918-00-3
Hydrazine	302-01-2 7803-57-8
Linear alkylbenzene sulfonates (LAS)	
Tetraboron disodium heptaoxid, hydrate	12267-73-1
Trixylyl phosphate	25155-23-1

APPENDIX 9

ORGANIC SOLVENTS	CAS NO
Benzene	71-43-2
Carbon tetrachloride/ tetrachloromethane	56-23-5
Chloroform	67-66-3
1,1-Dichloroethene	75-35-4
Ethylene glycol monoethyl ether	110-80-5
n-Hexane	110-54-3
N-Methylpyrrodine (NMP)	872-50-4
Methyl ethyl ketone (MEK)	78-93-3
N,N-dimethylacetamide (DMAC)	127-19-5
Pentachloroethane	76-01-7
Phenol	108-95-2
Tetrachloroethane (PERC)	127-18-4
1,1,1,2-Tetrachloroethane	630-20-6
1,1,2,2-Tetrachloroethane	79-34-5
1,1,1-Trichloroethane	71-55-6
1,1,2-Trichloroethane	79-00-5
Trichloroethylene (TCE)	79-01-6
1,2,3- Trichloropropane	96-18-4
Toluene	108-88-3

APPENDIX 10

ORGANOTIN COMPOUNDS	CAS NO
Bis(tributyltin)oxide (TBTO)	56-35-9
Dibutyltin (DBT) and dibutyltin compounds	Various
Diocetyl tin (DOT) and dioctyltin compounds	Various
Dibutyltin dichloride (DBTC)	683-181
Monobutyltin (MBT) compounds	Various
Monooctyltin (MOT) compounds	Various
Tributyltin (TBT) compounds	Various
Tricyclohexyltin (TCyHT) compounds	Various
Triocetyl tin (TOT) compounds	Various
Tripropyltin (TPT) compounds	Various
Triphenyltin (TPHT) and triphenyltin compounds	Various
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1

APPENDIX 11

PESTICIDES	CAS NO
2,4-D	94-75-7
Cypermethrin	52315-07-8
Aldrine	309-00-2
α-Hexachlorocyclohexane	319-84-6
β- Hexachlorocyclohexane	319-85-7
δ- Hexachlorocyclohexane	319-86-8
Azinophosethyl	2642-71-9
Azinophosmethyl	86-50-0
Bromophos-ethyl	4824-78-6
Captafol	2425-06-1

CONTINUE APPENDIX 11 - PESTICIDES

PESTICIDES	CAS NO
Cabaryl	63-25-2
Chlordane	57-74-9
Chlordimeform	6164-98-3
Chlordimeform hydrochloride	19750-95-9
Chlorfenvinphos	470-90-6
Chlorobenzilate	510-15-6
2,4,5-T	93-76-5
Chloropicrin	76-06-2
Coumaphos	56-72-4
Cyfluthrin	68359-37-5
Cyhalothrin	91465-08-6
2,4-DDD	53-19-0
4,4'-DDD	72-54-8
2,4-DDE	3424-82-6
4,4-DDE	72-55-9
2,4-DDT	789-02-6
4.4-DDT	50-29-3
DEF	78-48-8
Deltamethrin	52918-63-5
Diazinon	333-41-5
Dibromochloropropane (DBCP)	96-12-08
Dichlofenthion	97-17-6
Dichlorprop	120-36-5
Dieldrine	60-57-1
Dicrotophos	141-66-2
Diflubenzuron	35367-38-5
Dimethoate	60-51-5
Dinoseb and salts	88-85-7
Disulfiram	97-77-8
DTTB-(Timiperone)	57648-21-1
Endosulfan	115-29-7
Endosulfan II (beta)	33213-65-9
Endrine	72-20-8
Esfenvalerate	66230-04-4
Ethylene dibromide	106-93-4
Fenvalerate	51630-58-1
Flumethrin	69770-45-2
Heptachlor	76-44-8
Heptachloroepoxide	1024-57-3
Hexachlorobenzene	118-74-1
Isodrin	465-73-6
Kelevane	4234-79-1
Kepone	143-50-0
Lindane (γ-HCH, including mixtures of isomers of HCH (BHC))	58-89-9 608-73-1
MCPA	94-74-6
MCPB	94-81-5
Mecoprop	93-65-2
Metamidophos	10265-92-6
Methoxychlor	72-43-5

CONTINUE APPENDIX 11 - PESTICIDES

PESTICIDES	CAS NO
Methyl bromide	74-83-9
Mirex	2385-85-5
Monocrotophos	6923-22-4
Monomethyldibromodiphenylmethane	99688-47-8
Monomethyldichlorodiphenylmethane	-
Monomethyltetrachlorodiphenyl-methane	76253-60-6
Parathion-methyl	298-00-0
Phosdrin / Mevinphos	7786-34-7
Quintozene	82-68-8
Paraquat dichloride	1910-42-5
Parathion	56-38-2
Permethrin	52645-53-1
Perthane	72-56-0
Phosphamidone	13171-21-6
Profenophos	41198-08-7
Propethamphos	31218-83-4
Quinalphos	13593-03-8
Strobane	8001-50-1
Telodrin	297-78-9
Toxaphene	8001-35-2
Triflururon	64628-44-0
Trifluralin	1582-09-8
2,3,5,6-Tetrachlorophenol	935-95-5

APPENDIX 12

PHTHALATES	CAS NO
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Di-cyclohexylphthalate (DCHP)	84-61-7
Diethyl phthalate (DEP)	84-66-2
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7
Diisobutyl phthalate (DIBP)	84-69-5
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0
Diisopentylphthalate (DIPP)	605-50-5
Dipentyl phthalate	131-18-0
Di-n-hexyl phthalate (DnHP)	84-75-3
Di-n-octyl phthalate (DNOP)	117-84-0
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6
Di-C7-11-branched alkylphthalates (DHNUP)	68515-42-4
Di-(2-methoxyethyl)-phthalate (DMEP)	117-82-8
N-pentyl-isopentylphthalate	776297-69-9

APPENDIX 13

POLYCYCLIC AROMATIC HYDROCARBONS - PAH	CAS NO
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo[a]anthracene	56-55-3
Benzo[a]pyrene	50-32-8
Benzo[b]fluoranthene	205-99-2
Benzo[k]fluoranthene	207-08-9
Benzo[j]fluoranthene	205-82-3
Benzo[e]pyrene	192-97-2
Benzo[ghi]perylene	191-24-2
Chrysene	218-01-9
Cyclo-penta(c,d)pyrene	27208-37-3
Dibenz[a,h]anthracene	53-70-3
Dibenz(a,h)acridine	226-36-8
Dibenzo(a,e)fluoranthene	5385-75-1
Dibenzo(a,e)pyrene	192-65-4
Dibenzo(a,h)pyrene	189-64-0
Dibenzo(a,i)pyrene	189-55-9
Dibenz(a,j)acridine	224-42-0
Dibenzo(a,l)pyrene	191-30-0
7,12-Dimethylbenz(a)anthracene	57-97-6
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3-cd]pyrene	193-39-5
3-Methylcholanthrene	56-49-5
5-Methylchrysene	3697-24-3
1-Methylpyrene	2381-21-7
Naphthalene	91-20-3
1-Nitropyrene	5522-43-0
Phenanthrene	85-01-8
Pyrene	129-00-0

3.6 Chemical Testing

A test report performed by an approved independent laboratory may be requested.

The Varner Group reserves the right to cancel orders, in whole or in part, and claim or take other action if products or tests do not comply with our chemical requirements. The buying department reserves the right to ask for additional documentation showing the requirements have been respected and random controls may be carried.

3.7 Chemical Certificate

The buying departments reserve the right to ask for additional documentation on fabric, trims or other material that been used. Documentation shall show origin and show that the Varner Group chemical requirements have been respected. Random product quality controls may be carried out.

Suppliers may be asked to print out, complete and submit the below **Chemical Certificate** together with all pre-production samples in correct colours and artwork and enclose related test documentation.

Varner Group Chemical Certificate

Supplier	
Buying Chain	
Date	

SUPPLIER COMMITMENT

We hereby confirm that the present order comply with the Varner Group Chemical requirements. We confirm the products supplied do not contain any hazardous substances.

Name and Position	
Supplier's Signature	