## **Uncontrolled Document**



**Document Number:** E962

Revision: AD

Document Title: PALL GLOBAL DISALLOWED &

**CONTROLLED SUBSTANCES** 

Document Type: SUPPLIER DOCUMENTATION

Pall wishes to control or limit use of various substances, either in, or in contact with articles and materials used in the manufacture of the products Pall supplies. We therefore request vendors advise Pall if they know certain substances of interest are present in the items they supply to us.

This document contains the substances of current interest. These lists can change. Therefore, Pall has made available this web site copy of the latest listings. In this way Pall hopes to ensure you are kept informed of our current requirements.

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## I. Application

This specification identifies certain substances that Pall, its business units and manufacturing sites (herein referred to as Pall) wish to control, or prohibit use of in/or in contact with Pall purchased components and materials used in the manufacture of products supplied by Pall.

### II. Scope

- A. Pall needs to be aware of use of certain substances in the manufacture of their filtration and separation products, parts and accessories. The scope of this requirement is all raw materials, purchased components and parts supplied to Pall.
- **B.** The Supplier shall certify, or provide a written **Declaration of Conformity**, that current and future shipments of the subject component or material meet the requirements of this specification, as invoked on the Pall purchase order. This document shall be submitted to the appropriate Pall Manufacturing Site Quality group. In the event of a change to the subject component or material (formulation or manufacturing process) a renewal of this certification / declaration will be required.
- C. Unless a concession has been previously granted, it is the Suppliers' responsibility "not to ship" and to notify Pall if they have current knowledge, indication, or suspicion, that the supplied component or material may contain a Pall Disallowed substance(s) (as defined in Table 2) wherein failure "not to ship" and to notify is in violation of the Pall Purchase Order and this specification, however Pall shall reserve the right to grant concessions once they have been notified.
- D. It is the Supplier's responsibility to notify Pall if they have current knowledge, indication, or suspicion, that the supplied component or material may contain a Pall Controlled substance(s) (as defined in Table 1) wherein failure to notify is in violation of the Pall Purchase Order and this specification.

**Note**: The "notification of use" (referred to in paragraphs II.C. and II.D. above) is limited to Suppliers' in house level of material and process control. This means that "notification of use" is required if the substance is known or suspected by the Supplier to be an ingredient, used in the Suppliers' process, or comes in contact" (including by accidental exposure) with the Pall purchased component.

#### III. Requirements

- **A.** Pall purchased packaging materials includes bags, boxes, labels and inserts require compliance to:
  - CONEG (USA Coalition of North Eastern Governors): Toxics in Packaging
  - **EU directive 94/62/EC** on packaging and packaging waste.
  - EU requirements for registration, evaluation & authorization of chemicals EU
    Regulation 1907/2006 (REACH) and its amendments, in respect of any substance
    listed an SVHC shall be below 0.1% of the material or article supplied.
  - EU requirement for Restriction of Hazardous Substances in Electronic and Electrical Equipment EU directive 2011/65/EU (ROHS2).

If any of the above requirements are not met, the Supplier must notify the Pall immediately in writing defining the substance and any other available information relative to concentration present.

- **B.** All plastic resins purchased directly by Pall require compliance to:
  - EU requirements for registration, evaluation & authorization of chemicals EU Regulation 1907/2006/1907 (REACH) and its amendments in respect of any substance listed an SVHC shall be below 0.1% of the material or article supplied.
  - EU requirement for Restriction of Hazardous Substances in Electronic and Electrical Equipment **EU directive 2011/65/EU** (ROHS2) in respect of prescribed metals levels and other substances specified in ROHS2 shall be below the required levels.

Using generally available industrial test methods and/or equipment, residues of metal catalysts from processes used by the Supplier, i.e. in relation to polymerization process, shall be "below detectable limits".

If any of the above requirements are not met, the Supplier must notify the Pall immediately in writing defining the substance and any other available information relative to concentration present.

C. Animal derived materials – all components or materials purchased by Pall:

The Supplier is responsible for consulting with their material suppliers to determine if and how animal derived materials are used in the material / article to be supplied to Pall. If the presence of direct materials of animal origin, or animal derived materials, are confirmed the Supplier must notify the Pall Corporation ordering facility in writing. The Supplier must also advise Pall of: animal source (bovine / ovine / caprine / poultry / porcine etc.), how the animal derived material is used, how it is processed to minimize the risk of transmission of TSE (transmissible spongiform encephalopathy) / BSE (bovine spongiform encephalopathy) such as identified by the **U.S. Code of Federal Regulations**, Title 9 of part 94.18, which sets forth restrictions on the source of products and the CPMP's Note or guidance (**EMEA/410/01**), quantity present (volume %) and its source (animal type, part of the animal and country of origin).

#### **D.** Controlled Substances – applicable to all materials provided by the supplier:

If any of the Pall Controlled substances (See Table 1) are known or suspected to be present in the article / materials supplied, are used in the Suppliers' processes, and/or come in contact with during the manufacture of Pall purchased component or material, the Supplier must notify the Pall, in writing defining the substance and any other available information relative to concentration and how the substance is used.

#### **E. Disallowed Substances** – applicable to all materials provided by the supplier:

If any of the Pall Disallowed substances (See Table 2) are known or suspected to be present in the article / materials supplied, are used in the Suppliers' processes, and/or come in contact with during the manufacture and subsequent handling of Pall purchased component or material, the Supplier must not ship the material or component unless a concession has been previously granted. Supplier must notify the Pall immediately in writing defining the substance and any other available information relative to concentration and how the substance is used.

#### F. Conflict Minerals – applicable to all materials provided by the supplier

The United States has enacted the **Dodd-Frank Wall Street Reform and Consumer Protection Act** ('The Act) which imposes certain additional reporting and due diligence requirements on US companies related to 'Conflict Minerals' - particular minerals of concern when originating from the Democratic Republic of Congo, Angola, Burundi, the Central African Republic, Congo, Rwanda, Sudan, Uganda, the United Republic of Tanzania or Zambia.

The minerals of concern are:

Columbite- tantalum (a source of tantalum)
Cassiterite (a source of tin)
Wolframite (a source of tungsten)
Gold

and their derivatives.

Pall requests that the Supplier advises Pall, in writing, if any of the above minerals or their derivatives are present in the material /article to be provide to Pall, or are used in the production of that material / article by their supply chain. If so used or present, please conduct a country of origin determination of that mineral and advises Pall if the source indicates it to be a 'Conflict Mineral'.

# **G. Jatropha Derived Material** – applicable materials provided by the vendor

The supplier is responsible for consulting with their materials suppliers to determine if materials derived from Jatropha plant (such as oils, glycerine, or proteins) are used in the materials/article to be supplied to Pall. If the presence of materials derived from Jatropha plant is confirmed, the supplier must notify the appropriate Pall ordering facility in writing.

H. "State of California Environmental Protection Agency 'Office of Environmental Health Hazard Assessment - Safe Drinking Water and Toxic Enforcement Act of 1986'

The State of California, USA has certain labelling and notification requirements relating to chemicals known to the State to cause cancer or reproductive harm, which are listed on Prop-65.

If any substance on the current Prop-65 list or its derivatives, are known or suspected to be present in the article / materials supplied, are used in the Suppliers' processes, and/or come in contact with during the manufacture of Pall purchased component or material, the Supplier must notify the Pall, in writing, defining the substance and any other available information relative to concentration and how the substance is used."

## **Table 1. Controlled Substances**

A	В	C	D
Antimony and antimony compounds including;	Beryllium and beryllium compounds <sup>1</sup>	Cadmium or cadmium compounds <sup>1</sup> including:	Disodium octaborate anhydride
Pryochlor,	•	Cadmium sulphide	Disodium octaborate tetrhydrate 2-ethylhexyl 10-ethyl-4,4-diocty
antimony lead yellow	Bismuth and Bismuth	Cadmium oxide	7-oxo-8-oxa-3,5-dithia-4-
J J	compounds <sup>1</sup>	Cadmium chloride	stannatetradecanoate (DOTE)
Arsenic and arsenic compounds <sup>1</sup>		Cadmium fluoride	D .: M ADOTE 1
including:	Bis(2,3-epoxypropyl ethers	Cadmium sulphate	Reaction Mass of DOTE and MOTE <sup>2</sup>
Triethyl arsenate	(BADGE compounds)	1	MOTE
Trilead diarsenate		Cobalt and cobalt	1,2-Benzenedicarboxylic acid, di
Calcium arsenate	Bisphenol A (BPA)	<b>compounds</b> <sup>1</sup> including: Cobalt chloride	C6-8-branched alkyl esters, C7-rich
Anthracene and Anthracene	Tetrabromobisphenol A	Cobalt dichloride	1,2-Benzenedicarboxylic acid, d
compounds including:	(TBBP-A)	Cobalt sulphate	C7-11-branched and linear alkyl
Anthracene oil		Cobalt dinitrate	esters (DHNUP)
Anthracene paste	2-bromopropane	Cobalt carbonate	125
Anthracene	2,2 bis(4-	Cobalt diacetate	1,2-Benzenedicarboxylic acid, dipentylester, branched and linea
Black Pitch	hydroxyphenyl)propane		dipentylester, branched and lines
	Boric acid	Chromium and chromium compounds <sup>1</sup> and	1.2-Benezenedicarboxylic acid, dihexyl ester, branced and linear
Acrylonitrile	Borax	Hexavalent chromium and	
Acrylamide		Hexavalent chromium	5-sec-butyl-2-(2,4-
	1,3-butadiene	compounds <sup>1</sup>	dimethylcyclohex-3-en-1-yl)-5-
Alkanes $C_{10-13}$ (Short chain	1,2-dibromoethane	including:	methyl-1,3-dioxane[1],5-sec-
parafins) Short chain chlorinated parafins	Benzyl chloride	Chromic acid	butyl-2-(4,6-dimehtylcyclohex-3-en-1-yl)-5-methyl-1,3-
(SCCPs)		Chromic acid-calcium salts	dioxane[2][covering any of the
Medium chain chlorinated	Hexabromocyclodecane	Chromium (III) chromate	individual stereoisomers of
parafins (MCCPs)	(HBCD)	Chromic acid-magnesium salts	[1]and[2] or any combination thereof]
4-chloroaniline	1,bromopropane		
2-methoxyaniline (o-anisidine)		Dichromic acid	Pentacosafluorotridecanoic acid
N,N,N',N'-tetramethyl-4,4'-	Biocidal materials or		Pentadecafluorooctanoic acid
methylene dianiline	substances	Oligomers of chromic and dichromic acids	Tricosafluorododecanoic acid
Acetic acid	Benzo[a]pyrene		Henicosafluoroundecanoic acid
	<b>D</b>	Calcium chromate	
Methoxyacetic acid (MAA)	Diboron trioxide	Calcium dichromate	Heptacosafluorotetradecanoic
2-Ethoxyethyl acetate	Tetraboron disodium		acid
3	heptaoxide, hydrate	Coal tar pitch, high temperature	
Dioctyl adipate	11	temperature	Perfluorononan-1-oic-acid
	n-propylbromide	Carbon monoxide	(PFOA) and its sodium and ammonium salts
4,4'-oxydianiline and its salts	Tert-butyl 4-[({[(EO-(1,3-	Carbon monoxide	ammonium saits
	dimethyl-5-phenoxy-1H-	Cromunia: 4	Nicolar Control
4 aminobiphenyl	pyrazol-4-	Cyanuric acid	Nonadecafluorodecanoic acid (PFDA) and its sodium and
-	yl)methylene]aminooxyme	C111	ammonium salts
	thyl]benzoate	Cyclododecane	
	1	•	1

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$\mathbf{E}$	F	G	H
Endocrine disrupting chemicals (EDCs)	Fenpyroximate (ISO)	Gallium arsenide	Halogenated biphenyl methane compounds
Epoxydised Soybean Oil (ESBO)	Fluorocarbon (solvents, release agents and lubricants)	Glycidol	Hydrofluorocarbons (HFCs)
Glycol ethers and acetates including:	Basic Flavin		Hydrazine
Ethylene glycol ethers and acetates	Formaldehyde		Cyclohexane-1,2- dicarboxylicanhydride
Ethylene glycol ethyl ether acetate			
Ethylene glycol methyl ether acetate	Formamide		Hexahydrophthalic anhydride ( HHPA)
Ethylene glycol methyl ether			Hexahydromethylphthalic
Ethylene glycol mono ethyl ether			anhydride
Ethylene glycol dimethyl ether			
Ethylene oxide			Hexahydro-4-methylphthalic
Butyl Glycidyl Ether (BGE)			anhydride
Diethylene glycol dimethyl ether			
Triglyme (TEGDME)			Hexahydro-1-methylphthalic anhydride
1,2-dimethoxyethene, ethene glycol dimethyl ether (EGDME)			Hexahydro-3-methylphthalic
2-ethoxyethanol			anhydride
Epichlorohydrin (1-chloro-2,3-epoxypropane)			
1,2-Diethoxyethane			
Tetrachloroethylene			
Pentchlorobenzenethiol			
I	L	M	N
Imidizole	Latex	Melamine	N-Nitrosamine compounds
		Melamine formaldehyde	
Imidazolidine-2-thione	Lead and lead compounds <sup>1</sup>		Nonyl phenol
	including	Mercury and mercury	Nonyl phenolethoxylate
Isopene	Lead hydrogen arsenate	compounds*	N-butyl benzene
	Lead azide		
	Lead acetate	Dimethyl formamide	Nickel and nickel compounds <sup>1</sup>
	Lead diacetate	(DMF)	including:
	Lead diazide		Nickel sulphate
	Lead styphnate	Dimethyl acetamide (DMAC)	Nickel sulphide
	Lead dipicrate	(DMAC)	Nickel sub sulphide
	Lead II bis methane sulfonate	4,4'-methylene bis(2-	Nickel bis(sulphamidate)
	Lead tetoxide	chloraniline)	Nickel monoxide
	Lead cyanamidate	<u>'</u>	Nickel dioxide
	Lead dinitrate	2-methoxy-1-propanol	Nickel trioxide
	Lead monoxide	J - FPwill	Nickel carbonate

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	Lead oxide sulphate			
	Lead titanium trioxide	2-methoxy ethyl acetate	Nickel carbonyl 2-	
	Lead titanium zircon oxide		naphthylamine	
	Lead bis(tetrafluoroborate)	2-methoxyethanol		
	Trilead dioxide phosphonate		Trinickel disulphide	
	Trilead bis(carbonate) dihydroxide	4-methyl-m-phenylene diamine	Tetracarbonyl nickel	
	Tetralead trioxide sulphate	2 mathauximmanul acetata	Nano-technology materials	
	Tetraethyl lead	2-methoxypropyl acetate		
	Pentalead tetroxide sulphate	Dimethyl sulfoxide (DMSO)	Nitrobenzene and dinitrobenzenes	
	Dibasic lead salt of sulfurous acid	1-Methyl-2-pyrrolidone (NMP)	dinitrobenzenes	
	Lead silicate			
	Lead stearate	n-methylacetamide (NMA)		
O	P	S	T	
Oils and corrosion prevention	Phthalates of the type:	Stylene	Dibutyl tin chloride	
agents	Bis(2-methoxyethyl) phthalate	Selenium and selenium	Trialkyl and triaryl tin	
Octylphenol	Dicyclohexyl phthalate	compounds <sup>1</sup>	compounds	
	Diethyl phthalate			
Methyloxirane	Dipentyl phthalate (DPP)	Silicone (oils, release agents	Thiurams	
3-ethyl-2-methyl-2-(3-	Dipropyl phthalate	and sprays)		
methylbutyl)-1,3-oxazolidine	Dimethyl phthalate		Tantalum	
Ammonium	Diamyl phthalate Dinonyl phthalate Di-n-octyl-phthalate	Sodium formaldehyde sulfoxylate	Tantalite	
pentadecafluorooctanoate (APFO)	Di-isodecyl phthlate (DIDP) Dihexyl phthalate (DHP)	Sodium hydroxide (Industrial)	Thallium	
	Diisopentylphthalate(DIPP)	Sodium sulphide	Trichlorobenzene	
	N-pentyl- isopentylphthalate	Sodium dichromate, dihydrate	1,2,3-trichloropropane	
	1,2-benzenedocarboxylic	Sodium perborate	Tetraboron disodium heptaoxide hydrate	
	acid, di-C6-10-alkyl ester	Perboric acid, sodium salt,		
	2,3- benzenedocarboxylic	Sodium peroxometaborate Disodium tetraborate	Tar oils and creosotes	
	acid, mixed decyl and hexyl and octyl diesters with greater	anhydrous		
	than or equal to 0.3% of	Sodium thiocyanate	Toluene	
	dihexyl phthalate		4-nitrotoluene	
		Sulphur (Industrial)	2,3-dinitrotoluene	
	Phenol (tetrapropenyl)	Diethyl sulphate	2,6-dinitrotoluene	
	derivatives	Dimethyl sulphate	3,5-dinitrotoluene	
	Branched dodecyl phenol		Dinitrotoluene (mixed isomers)	
	Polybromimated flame	Sulfurous acid, lead salt, dibasic	2-aminotoluene	
	retardants including;		2,4-diaminotoluene	
	pentabromodiphenyl ether octabromodiphenyl ether Bis(pentabromophenyl) ether	Tributylstannyl benzoate	Trichlorotoluene	
	(Deca-BDE)			
	(= 322)		Methylphenylenediamine	

Polybromimated biphenyls (PBB)

Polybromimated biphenyl ethers (PBDE)

Methylphenylenediamine diaminotoluene mixture (CAS 25376-45-8)

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Polybromi (PBTs)	mated terphenyls		o-Toluidine 4,4'-methylenedi-o-toluidine
PVC			6-methoxy-m-toluidine
Vinyl chlo PVDC	ride		Trixylyl phosphate
Pericarpiu	n papaveris		TGIC (1,3,5-tris(oxiranylmethy 1,3,5-triazine-2,4,6-(1H,3H,5H) trione
Potassium	bromate		
Perchloroe Propyl bro			Beta-TGIC (1,3,5-tris[(2s and 2R)2,3-epoxy propyl)]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trion
Propyl imi Propylenei	mine		
Propylene Pentachlor			
Tri-(2,3-di propyl)pho			
Tris-(1-azi phosphine			<b>Z</b> Zinc and zinc compounds <sup>1</sup> including:
Tributyl pl	nosphate		
Phenolphtl	nalein	1	4-(1,1,3,3- tetramethylbutyl)phenol,(4-tert- octylphenol)
	lbutyl)phenol		
4-(1,1,3,3- tetramethy etoxylated	lbutyl)phenol		
(4-tert-octy	(lphenol)		
4-nonylpho and linear	enol branched		
	enol branched ethoxylated		
1,3-propan	esultone		
1,2,3-trich	loropropane		

4,heptylphenol, branched

para-(1,1)dimethylpropyl

and linear

UV adsorbers:	Fibers	Dye stuffs; Industrial	Other
2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol (UV-327)	Quartz Ceramic Fibres	Acid orange Basic Violet 3 Basic Blue 26	4,4'-bis-(dimethylamino)benzo phenone
2-(2H-benzotriazol-2-yl)-4-(tert-	(CAS 66402-68-4) Aluminosilicate Refractory Ceramic Fibres (RCF)	Basic Orange Basic yellow	4,4'-bis(dimethylamino)-4''- methylamino)trityl alcohol
butyl)-6-(sec-butyl)phenyl (UV-350)	Refractory ceramic fibres	Direct Red 28	Silicic acid (H2Si2O5), barium
2-(2H-benzotriazol-2-yl)-4,6-	(CAS 142844-00-6)	Direct Black 38 Malachite green	salt (1:1), lead-doped [with lead (Pb) content above the applicable
ditertpentylphenol (UV-238)	Special purpose 475 Glass Fibers	Phthalcocyanine Green Sudan Red	generic concentration limit for 'toxicity for reproduction' Repr.
(UV-238)	Special purpose E-Glass	Solvent Blue 4	1A (CLP) or category 1 (DSD)
2-benotriazol-2-yl-4,6-di-tert- butylphenol	Fibers	Rhodamine B	Cyclohexane-1,2-dicarboxylic
(UV-320)	Zirconium aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	Azo compounds	anhydride [1], cis-cyclohexane- 1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2- dicarboxylic anhydride [3] [Individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered

#### NOTES -

'1', Where stated 'and their compounds' please advise any of compounds of this substance known to be present – please do not limit to the examples given. Beryllium or beryllium compounds, Cadmium or cadmium compounds, Hexavalent chromium or hexavalent chromium compounds, Lead or lead compounds, Mercury or mercury compounds.

CONEG (Coalition of Northern Governors) requirements of less than 100 ppm for total incidental cadmium, chromium, lead and mercury.

EU Restriction of Hazardous Substances in Electronic and Electrical Equipment **EU directive 2011/65/EU** (ROHS2) requirements for concentrations of lead, cadmium, mercury, hexavalent chromium and requirements for polybrominated biphenyls(PBBs) and polybrominated biphenyl ethers (PBDE) and various phthalate substances, must be less than:

Lead limit 0.1% (1000ppm) 0.1% (1000ppm) Mercury Hexavalent chromium 0.1% (1000ppm) Cadmium 0.01% (100ppm) Polybrominated biphenyls(PBBs) 0.1% (1000ppm) Polybrominated biphenyl ethers (PBDE) 0.1% (1000ppm) **DEHP** 0.1% (1000ppm) **BBP** 0.1% (1000ppm) **DBP** 0.1% (1000ppm) **DIBP** 0.1% (1000ppm)

Batteries limit Cadmium 20ppm and Mercury 5ppm

'2', Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(reaction mass of DOTE and MOTE)

# **Table 2. Disallowed Substances**

A	В	C	D	E
Aldrin	Bis(tributyl tin oxide)	Chlordane	Dyes:	Endrin
		Chlorinated paraffin	Red 104	
Azo compounds including;	Bis(hydroxyphenyl)met	Chlordecone	Yellow 34	Bis(2-
Azo dicarbonamide	hane bis(2,3-			methoxyethyl)ether
o-amino azo toluene	epoxypropyl) ethers (BFDGE)	Chlorofluorocarbon (CFC)	Dieldrin Dioxins and cogeners	1,2-Dichloroethane (EDC)
Antistaic agents***	Benzene and polyaromatic	Chromium (VI) trioxide	1,4-dioxane	(LDC)
4-aminodiphenyl	hydrocarbons (PAH)	Dichromium (tris)	N,N-dilolyl-p-	
Asbestos and asbestos fibres*	Benzidine	chromate	phenyldiamine	
Diarsenic pentoxide	Bis(chlormethyl) ether	Oligomers of chromic and dichromic acids	Dimethyl fumarate (also know as 2-	
Diarsenic trioxide	Beta-naphthylamine	Ammonium dichromate	butenedioic acid dimethyl ester) (DMF)	
Arsenic acid	2,2H-1,2,3- benzoytiazol-2-yl-4,6-	Potassium dichromate		
2,2'-dichloro- 4,4'methylenedianiline (MOCA)	di-tert-butylphenol	Potassium chromate		
(MOCA)		Potassium hydroxyoctaoxodizincated dichromate		
F	Н	I	M	N
Furans and cogeners	Herbicides	Insecticides including: DDD	Mirex	Novolac glycidyl ethers (NOGE)
Sulphur hexafluoride	Halon 1211	DDE	Musk xylene	
	Halon 1301	DDT		4-nitrodiphenyl
Fungicides	Heptachlor		4,4-diaminodiphenyl	
	Hexachlorobenzene	L	methane	
Freon 150	Hexabrombiphenyle	Lead chromate	(MDA)	
Formaldehyde, oligomeric reaction products with aniline	Highly volatile halogenated hydrocarbons			
	Hydrochlorofluorocarbon (HCFC)			
	2-(2'-hydroxy-3'5'-di-tert- butylphenyl)benzotriazole			
	Hexachlorobuta-1,3-diene			
	Hexabromocyclododeca ne (HBCDD)			

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Organic tin compounds - Tributyl tin Triphenyl tin  Ozone depleting substances**	Polychlorinated biphenyls (PCBs) Polychlorinated terphenyls (PCTs) Pesticides Polychloinated and polybrominated dioxins	Radioactive substances  Rodenticides	Toxaphene Thiocyanic acid (2-benzothiazolythiomet hylester) (TCMTB)  2,4,6-tri-tert-butylphenol	Yellow phosphorus
	and furans Polychlorinated napthalenes		Trichloroethylene	
	PFOS		m-tolyidene diisocyanate	
	Perfluoro octanoic acid (PFOA)		2,4-dinitrotoluene	
	Phthalates of the type: Butyl benzy phthalate		Tris(2-chloroethyl) phosphate (TECP)	
	(BBP) Dibutyl phthalate (DBP)	S		Z
	Diisobutyl phthalate (DIBP)	Sodium chromate		Pentazinc chromate octahydroxide
	Dioctyl phthalate (DOP) Bis(2-ethylhexyl) phthalate (BEHP)	Sodium dichromate, anhydrate  Strontium chromate		
	Di-2-ethylhexyl- phthalate (DEHP) Di-iso-nonyl phthalate (DINP)	Strontium chromate		

#### NOTES -

- \*Asbestos / Asbestos fibers Material must not contain any asbestos fibers or be in contact with material containing asbestos during processing.
- \*\* **Ozone depleting substances** (general) including but not limited to Polybrominated flame retardants, Polybromobiphenyl (PBBs), Polybromobiphenyl ethers (PBBE), Polychlorobiphenyls (PCBs), Polychloroterphenyls (PCTs)
- \*\*\* **Antistatic agents** activated carbon is permitted for use. Please therefore advise Pall of the nature of the antistatic to confirm it is specifically disallowed.