Restricted Materials List for SRC Electrical Suppliers

Applicability

This document describes the restricted substances in subassemblies, parts, materials, components, batteries, merchandise and packaging (referred to as "products" in the remainder of this document). The table below lists the threshold weight percent, any exemptions that may apply to the restriction, and examples of how the substance may be used. The examples given are not all inclusive. This list applies to all products, both direct and indirect, that are designed, manufactured or purchased worldwide either by SRC Electrical or a supplier to SRC Electrical.

Compliance with the restrictions in this SRC Electrical specific list does not relieve or diminish the obligation to comply with all applicable laws in the country and/or state where a product will be manufactured, imported and/or distributed. This includes, but is not limited to, the following laws:

- RoHS – Restriction of Hazardous Substances
- REACH – Registration, Evaluation, and Authorization of Chemicals
- WEEE – Waste Electrical and Electronic Equipment
- Battery Restrictions
- Packaging Restrictions
- Other national, state or local laws as applicable

Responsibility

It is the responsibility of the manufacturer, importer and/or distributor to verify that the substances listed in Table 1, or any applicable law, are not in any SRC Electrical products at or above mandated thresholds.

The Restricted Materials Certificate of Compliance (Form MV424) shall be completed and returned to SRC Electrical within 5 business days from receipt of the document.

Table 1

Substance/Item	Threshold Weight % (ppm)	Exemptions	Examples
Asbestos (all types)	Not Present		Brake pads, insulators, gaskets, clutch plates, "friction parts"
Cadmium and its Compounds in metallic applications	Not Present	Cadmium used in electrical contacts necessary to ensure reliability	Metal-plating
Cadmium and its Compounds in non-metallic applications	0.01% (100)		Pigments, batteries, plastics
Lead in Paint/Coatings	0.06% (600)		Lacquer, primer, protective coatings, plating
Polychlorinated Biphenyls (PCBs)	Not Present		Capacitors, transformers, lighting ballasts
Chlorinated Hydrocarbons (See Attachment 1)	0.06% (600)		Solvents, adhesives
Arsenic and its Compounds	0.06% (600)		
Hexavalent Chromium (Cr+6)	Not Present (**Effective date: 2017-01-01)***		Electroplating of metals; pigments (dyes, paints, inks)
Cyanide and its Compounds	Not Present		
Ozone Depleting Substances (See Attachment 2)	Not Present		

*** SRC Electrical shall not receive plated parts containing Hexavalent Chromium Cr+6 after 2017-01-01. Must be clear trivalent plating.**

Restricted Materials
Certificate of Compliance

Vendor Number: (_____)

Company: _____

Address: _____

_____

_____

Date: ____/____/_____

I hereby affirm that our Company complies with the requirements for products supplied to SRC Electrical LLC, as listed in the Restricted Materials List for SRC Electrical, LLC Suppliers, document and attachments.

Signature:_____

Authorized Manager

SRC Electrical	**Title:** Restricted Material CoC	**Document #:** MV424
	Revision Level: 2	**Effective Date:** 12/08/2016

Attachment 1: Listing of Chlorinated Hydrocarbons restricted from finished products (page 1 of 1)

Substance/Item	Chemical Abstract Service (CAS) Number	Threshold Weight % (ppm)	Exemptions
1,1 Dichloroethylene	75-35-4	0.06% (600)	
Pentachloroethane	76-01-7	0.06% (600)	
Methylene chloride	75-09-2	0.06% (600)	
Tetrachloromethane (Carbon Tetrachloride)	56-23-5	0.06% (600)	
1,1,1,2 Tetrachloroethane	630-20-6	0.06% (600)	
1,1,2,2 Tetrachloroethane	79-34-5	0.06% (600)	
Tetrachloroethylene	127-18-4	0.06% (600)	
Trichloromethane (Chloroform)	67-66-3	0.06% (600)	
1,1,2 Trichloroethane	79-00-5	0.06% (600)	
Trichloroethylene	79-01-6	0.06% (600)	
1,1,1-Trichloroethane (TCA)	71-55-6	0.06% (600)	
Bis (chloromethyl) ether	542-88-1	0.06% (600)	
Pentachlorophenol	87-86-5	0.06% (600)	
Polychlorinated Phenols and their salts	Chemical class; no CAS number assigned	0.06% (600)	

Attachment 2: Ozone Depleting Substances (ODSs) banned from finished products (page 1 of 4)

Hydrochlorofluorocarbons and Isomers (based on the Montreal Protocol)	Chemical Abstract Service (CAS) Number
Trichlorofluoromethane	75-69-4
Dichlorodifluoromethane (CFC12)	75-71-8
Chlorotrifluoromethane (CFC 13)	75-72-9
Pentachlorofluoroethane (CFC 111)	354-56-3
Tetrachlorodifluoroethane (CFC 112)	76-12-0
Trichlorotrifluoroethane (CFC 113) 1,1,2 Trichloro-1,2,2 trifluoroethane	354-58-5; 76-13-1
Dichlorotetrafluoroethane (CFC 114)	76-14-2
Monochloropentafluoroethane (CFC 115)	76-15-3
Heptachlorofluoropropane (CFC 211)	422-78-6; 135401-87-5
Hexachlorodifluoropropane (CFC 212)	3182-26-1
Pentachlorotrifluoropropane (CFC 213)	2354-06-5; 134237-31-3
Tetrachlorotetrafluoropropane (CFC 214) 1,1,1,3-Tetrachlorotetrafluoropropane	29255-31-0 2268-46-4
Trichloropentafluoropropane (CFC 215) 1,1,1-Trichloropentafluoropropane 1,2,3-Trichloropentafluoropropane	1599-41-3 4259-43-2 76-17-5
Dichlorohexafluoropropane (CFC 216)	661-97-2
Monochloroheptafluoropropane (CFC 217)	422-86-6
Bromochlorodifluoromethane (Halon 1211)	353-59-3
Bromotrifluoromethane (Halon 1301)	75-63-8
Dibromotetrafluoroethane (Halon 2402)	124-73-2
Carbon Tetrachloride (Tetrachloromethane)	56-23-5
1,1,1, - Trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6
Bromomethane (Methyl Bromide)	74-83-9
Bromodifluoromethane and isomers (HBFCs)	1511-62-2

These materials may contain isomers that are not listed here. Isomers with CAS numbers have been included when available.

Attachment 2: Ozone Depleting Substances (ODSs) banned from finished products (page 2 of 4)

Hydrochlorofluorocarbons and Isomers (based on the Montreal Protocol)	Chemical Abstract Service (CAS) Number
Dichlorofluoromethane (HCFC 21)	75-43-4
Chlorodifluoromethane (HCFC 22)	75-45-6
Chlorofluoromethane (HCFC 31)	593-70-4
Tetrachlorofluoroethane (HCFC 121) 1,1,1,2-tetrachloro-2-fluoroethane (HCFC 121a) 1,1,2,2-tetracloro-1-fluoroethane	134237-32-4 354-11-0 354-14-3
Trichlorodifluoroethane (HCFC 122) 1,2,2-trichloro-1,1-difluoroethane	41834-16-6 354-21-2
Dichlorotrifluoroethane(HCFC 123) Dichloro-1,1,2-trifluoroethane 2,2-dichloro-1,1,1-trifluroethane 1,2-dichloro-1,1,2-trifluroethane (HCFC-123a) 1,1-dichloro-1,2,2-trifluroethane (HCFC-123b) 2,2-dichloro-1,1,2-trifluroethane (HCFC-123b)	34077-87-7 90454-18-5 306-83-2 354-23-4 812-04-4 812-04-4
Chlorotetrafluoroethane (HCFC 124) 2-chloro-1,1,1,2-tetrafluoroethane 1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a)	63938-10-3 2837-89-0 354-25-6
Trichlorofluoroethane (HCFC 131) 1-Fluoro-1,2,2-trichloroethane 1,1,1-trichloro-2-fluoroethane (HCFC131b)	27154-33-2;(134237-34-6) 359-28-4 811-95-0
Dichlorodifluoroethane (HCFC 132) 1,2-dichloro-1,1-difluoroethane (HCFC 132b) 1,1-dichloro-1,2-difluoroethane (HCFC 132c) 1,1-dichloro-2,2-difluoroethane 1,2-dichloro-1,2-difluoroethane	25915-78-0 1649-08-7 1842-05-3 471-43-2 431-06-1
Chlorotrifluoroethane (HCFC 133) 1-chloro-1,2,2-trifluoroethane 2-chloro-1,1,1-trifluoroethane (HCFC 133a)	1330-45-6 1330-45-6 75-88-7
Dichlorofluoroethane(HCFC 141) 1,1-dichloro-1-fluoroethane (HCFC-141b) 1,2-dichloro-1-fluoroethane	1717-00-6; (25167-88-8) 1717-00-6 430-57-9

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Attachment 2: Ozone Depleting Substances (ODSs) banned from finished products (page 3 of 4)

Hydrochlorofluorocarbons and Isomers (based on the Montreal Protocol)	Chemical Abstract Service (CAS) Number
Chlorodifluoroethane (HCFC 142)	25497-29-4
1-chloro-1,1-difluoroethane (HCFC142b)	75-68-3
1-chloro-1,2-difluoroethane (HCFC142a)	25497-29-4
Hexachlorofluoropropane (HCFC 221)	134237-35-7
Pentachlorodifluoropropane (HCFC 222)	134237-36-8
Tetrachlorotrifluropropane (HCFC 223)	134237-37-9
Trichlorotetrafluoropropane (HCFC 224)	134237-38-0
Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC 225)	127564-92-5; (2713-09-9)
2,2-Dichloro-1,1,1,3,3-pentafluoropropane(HCFC 225aa)	128903-21-9
2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC 225ba)	422-48-0
1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225bb)	422-44-6
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC 225ca)	422-56-0
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC 225cb)	507-55-1
1,1-Dichloro-1,2,2,3,3-pentafluoropropane(HCFC 225cc)	13474-88-9
1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC 225da)	431-86-7
1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225ea)	136013-79-1
1,1-Dichloro-1,2,3,3,3-pentafluoropropane(HCFC 225eb)	111512-56-2
Chlorohexafluoropropane (HCFC 226)	134308-72-8
Pentachlorofluoropropane (HCFC 231)	134190-48-0
Tetrachlorodifluoropropane (HCFC 232)	134237-39-1
Trichlorotrifluoropropane (HCFC 233)	134237-40-4
1,1,1-Trichloro-3,3,3-trifluoropropane	7125-83-9
Dichlorotetrafluoropropane (HCFC 234)	127564-83-4
Chloropentafluoropropane (HCFC 235)	134237-41-5
1-Chloro-1,1,3,3,3-pentafluoropropane	460-92-4
Tetrachlorofluoropropane (HCFC 241)	134190-49-1

These materials may contain isomers that are not listed here. Isomers with CAS numbers have been included when available.

Attachment 2: Ozone Depleting Substances (ODSs) banned from finished products (page 4 of 4)

Hydrochlorofluorocarbons and Isomers (based on the Montreal Protocol)	Chemical Abstract Service (CAS) Number
Trichlorodifluoropropane (HCFC 242)	134237-42-6
Dichlorotrifluoropropane (HCFC 243) 1,1-dichloro-1,2,2-trifluoropropane 2,3-dichloro-1,1,1-trifluoropropane 3,3-Dichloro-1,1,1-trifluoropropane	134237-43-7 7125-99-7 338-75-0 460-69-5
Chlorotetrafluoropropane (HCFC 244) 3-chloro-1,1,2,2-tetrafluoropropane	134190-50-4 679-85-6
Trichlorofluoropropane (HCFC 251) 1,1,3-trichloro-1-fluoropropane	134190-51-5 818-99-5
Dichlorodifluoropropane (HCFC 252)	134190-52-6
Chlorotrifluoropropane (HCFC 253) 3-chloro-1,1,1-trifluoropropane (HCFC 253fb)	134237-44-8 460-35-5
Dichlorofluoropropane (HCFC 261) 1,1-dichloro-1-fluoropropane	134237-45-9 7799-56-6
Chlorodifluoropropane (HCFC 262) 2-chloro-1,3-difluoropropane	134190-53-7 102738-79-4
Chlorofluoropropane (HCFC 271) 2-chloro-2-fluoropropane	134190-54-8 420-44-0

These materials may contain isomers that are not listed here. Isomers with CAS numbers have been included when available.