Superior Essex 4-Pair Plenum Copper Cable: Category 6A STP (U/FTP) by Superior Essex

Health Product Declaration v2.1

CLASSIFICATION: 27 10 00.00 Communications: Structured Cabling created via: HPDC Online Builder PRODUCT DESCRIPTION: This HPD covers the Superior Essex 4-Pair plenum Category 6A STP (U/FTP) copper cable. Superior Essex offers Shielded Twisted Pair Category 6A cables with a plenum FEP jacket. The cable has guaranteed performance to 600 MHz and meets or exceeds ANSI/TIA-568-C.2 for CAT 6A cables required for 10GBASE-T applications. The cable consists of four (4) balanced 23 AWG copper pairs. Each pair is wrapped with a Mylar backed aluminum foil with the drain wire in the center of all 4 copper pairs. The wrapped pairs are then jacketed with a flexible FEP jacket for plenum applications.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

nventory Reporting Format	Threshold level	Residuals/Impurities	Are All Substances Above the Thresh	hold Indicated:
Nested Materials Method Basic Method	○ 100 ppm○ 1,000 ppm	Residuals/Impurities Considered in 6 of 6 Materials	Characterized Percent Weight and Role Provided?	• Yes • No
Threshold Disclosed Per ○ Material ⊙ Product	Per OSHA MSDS	Explanation(s) provided for Residuals/Impurities? • Yes • No	Screened Using Priority Hazard Lists with Results Disclosed?	• Yes • No
			Identified Name and Identifier Provided?	C Yes C No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

FEP WIRE INSULATION 1 [1-PROPENE, 1,1,2,3,3,3-HEXAFLUORO-, POLYMER WITH TETRAFLUOROETHENE (1-PROPENE, 1,1,2,3,3,3-HEXAFLUORO-, POLYMER WITH TETRAFLUOROETHENE) LT-UNK] ELECTRICAL CONDUCTOR [COPPER (COPPER) LT-UNK] ALUMINUM SHIELD [ALUMINUM (ALUMINUM) LT-P1 | RES | END | PHY SILICON (SILICON) LT-UNK MAGNESIUM (MAGNESIUM) LT-UNK | PHY MANGANESE (MANGANESE) LT-P1 | END | MUL | REP NICKEL (NICKEL) LT-1 | CAN | RES | SKI | MAM | MUL COPPER (COPPER) LT-UNK IRON (IRON) LT-P1 | END] TIN COATED DRAIN WIRE [COPPER (COPPER) LT-UNK TIN (TIN) LT-P1] PLENUM JACKET 1 [UNDISCLOSED LT-P1 | RES UNDISCLOSED BM-2 | RES UNDISCLOSED LT-1 | CAN UNDISCLOSED BM-2 | PBT | END | MUL UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | SKI UNDISCLOSED BM-1 | MAM | AQU | CAN | MUL UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | MUL UNDISCLOSED LT-P1 | END UNDISCLOSED LT-P1 UNDISCLOSED LT-UNK UNDISCLOSED BM-3 UNDISCLOSED LT-P1 UNDISCLOSED BM-1 | AQU | RES | MUL UNDISCLOSED NoGS] PLENUM JACKET 3 [UNDISCLOSED LT-P1 | RES UNDISCLOSED BM-2 | RES UNDISCLOSED LT-1 | CAN UNDISCLOSED BM-2 | PBT | END | MUL UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | SKI UNDISCLOSED BM-1 | MAM | AQU | CAN | MUL UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | MUL UNDISCLOSED LT-P1 | END UNDISCLOSED LT-P1 UNDISCLOSED LT-1 | CAN | END UNDISCLOSED BM-3 UNDISCLOSED LT-P1 UNDISCLOSED LT-UNK UNDISCLOSED BM-3 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED BM-3 UNDISCLOSED BM-1 | AQU | RES | MUL UNDISCLOSED NoGS UNDISCLOSED LT-P1]

Number of Greenscreen BM-4/BM3 contents 4
Contents highest concern GreenScreen
Benchmark or List translator Score BM-1
Nanomaterial No

INVENTORY AND SCREENING NOTES:

All substances in this HPD have been screened using Priority Hazard Lists with results disclosed.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: N/A

VOC emissions: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

C Yes
No

SCREENING DATE: 2018-02-02 PUBLISHED DATE: 2018-02-28 EXPIRY DATE: 2021-02-02



Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- · Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

FEP WIRE INSULATION 1

%: 27.7970

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 ppm. Residuals were identified through supplier and consultant expertise regarding the substances disclosed. Any known impurities, unreacted inputs, and residuals were marked accordingly.

OTHER MATERIAL NOTES: All substances including residuals are disclosed to 1,000 ppm.

1-PROPENE, 1,1,2,3,3,3-HEXAFLUORO-, POLYMER WITH TETRAFLUOROETHENE (1-PROPENE, 1,1,2,3,3,3-HEXAFLUORO-, POLYMER WITH TETRAFLUOROETHENE)

ID: 25067-11-2

%: 100.0000	gs: LT-UNK	rc: NANO: ROLE: None No Insulation
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	
SUBSTANCE NOTES:		

ELECTRICAL CONDUCTOR

%: 24.9760

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 ppm. Residuals were identified through supplier and consultant expertise regarding the substances disclosed. Any known impurities, unreacted inputs, and residuals were marked accordingly.

other material notes: All substances including residuals are disclosed to 1,000 ppm.

COPPER (COPPER)					ID: 7440-50-8
%: 100.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Conductor	
HAZARDS:	AGENCY(IES) WITH WARNIN	NGS:			
None Found	No warnings found or	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:					

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 ppm. Residuals were identified through supplier and consultant expertise regarding the substances disclosed. Any known impurities, unreacted inputs, and residuals were marked accordingly.

OTHER MATERIAL NOTES: All substances including residuals are disclosed to 1,000 ppm.

ALUMINUM (ALUMINUM)					ID: 7429-90-5
%· 81.0000 - 99.0000	GS: I T-P1	RC: None	NANO: No	BOLE: Alloy Metal	

%: 81.0000 - 99.0000	GS: LT-P1	RC: None	nano: No	ROLE: Alloy Metal	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
RESPIRATORY	AOEC - Asthmager	AOEC - Asthmagens		Rs) - sensitizer-induced - inhalable forms only	
ENDOCRINE	TEDX - Potential E	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-State	EU - GHS (H-Statements)		ble solid	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		AZARD (REACTIVE) EU - GHS (H-Statements) H250 - Catches fire spontaneously if exposed to air		fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H261 - In contact with water releases flammable gases		

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

SILICON (SILICON) ID: 7440-21-3

%: 1.0000 - 13.5000	gs: LT-UNK	RC: None	nano: No	ROLE: Alloy Metal
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

 $\hbox{\scriptsize SUBSTANCE NOTES: } \textbf{Substance ranges based on supplier documentation.}$

MAGNESIUM (MAGNESIUM)

%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Alloy Metal
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H250 - Catches fire	e spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H260 - In contact v may ignite spontan	vith water releases flammable gases which reously

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

MANGANESE (MANGANESE) ID: 7439-96-5

%: 1.0000 - 2.0000	GS: LT-P1 RC: None	NANO: No ROLE: Alloy Metal
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

NICKEL (NICKEL)			ID: 7440-02-0
4 0000 = 0000	 	 	

%: 1.0000 - 5.0000	GS: LT-1	RC: None	NANO: No	ROLE: Alloy Metal		
HAZARDS:	AGENCY(IES) WITH WARNING	GS:				
CANCER	IARC		Group 1 - Agent	t is Carcinogenic to humans		
CANCER	IARC		Group 2b - Pos	sibly carcinogenic to humans		
CANCER	CA EPA - Prop 65		Carcinogen			
CANCER	US CDC - Occupational Carcinogens		Occupational Ca	arcinogen		
CANCER	US NIH - Report on Carcinogens		Reasonably Anticipated to be Human Carcinogen			
RESPIRATORY	AOEC - Asthmagens		Asthmagen (AR	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		
SKIN SENSITIZE	EU - GHS (H-Statements)		H317 - May cause an allergic skin reaction			
CANCER	EU - GHS (H-Statements)		H351 - Suspected of causing cancer			
ORGAN TOXICANT	EU - GHS (H-Statements)		H372 - Causes damage to organs through prolonged or repe exposure			
MULTIPLE	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters			
CANCER	MAK		Carcinogen Group 1 - Substances that cause cancer in man			
RESPIRATORY	MAK		Sensitizing Substance Sah - Danger of airway & skin sensitization			

 $\hbox{\tt SUBSTANCE\ NOTES: } \textbf{Substance\ ranges\ based\ on\ supplier\ documentation.}$

COPPER (COPPER)	ID: 7440-50-8

%: 0.1000 - 4.7000	GS: LT-UNK	RC: None	nano: No	ROLE: Alloy Metal		
HAZARDS:	AGENCY(IES) WITH WARNIN	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found or	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

IRON (IRON) ID: 7439-89-6

%: 0.1000 - 1.3000	gs: LT-P1	RC: None	NANO: No	ROLE: Alloy Metal		
HAZARDS:	AGENCY(IES) WITH WARNII	AGENCY(IES) WITH WARNINGS:				
ENDOCRINE	TEDX - Potential End	TEDX - Potential Endocrine Disruptors		rine Disruptor		

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

TIN COATED DRAIN WIRE

%: 2.2690

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 ppm. Residuals were identified through supplier and consultant expertise regarding the substances disclosed. Any known impurities, unreacted inputs, and residuals were marked accordingly.

OTHER MATERIAL NOTES: All substances including residuals are disclosed to 1,000 ppm.

COPPER (COPPER) ID: 7440-50-8

%: 98.0000 - 99.9900	gs: LT-UNK	RC: None	nano: No	ROLE: Drain Wire		
HAZARDS:	AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: Substance ranges based on supplier documentation.						

TIN (TIN)

%: 0.0100 - 2.0000	GS: LT-P1	RC: None	nano: No	ROLE: Tin Coating		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: Substance ranges based on supplier documentation.						

PLENUM JACKET 1 %: 0.0000 - 31.9740 HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 ppm. Residuals were identified through supplier and consultant expertise regarding the substances disclosed. Any known impurities, unreacted inputs, and residuals were marked accordingly.

OTHER MATERIAL NOTES: Alternate to Plenum Jacket 3. All substances including residuals are disclosed to 1,000 ppm.

%: 30.0000 - 40.0000	GS: LT-P1	RC: None	nano: No	ROLE: Polymer
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens		Asthmagen (Rs) - sensitizer-induced	

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 25.0000 - 45.0000	GS: BM-2	RC: None	nano: No	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
RESPIRATORY	AOEC - Asthmagen	AOEC - Asthmagens		sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: Impurity/Residual	GS: LT-1	RC: None	nano: No	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH	H WARNINGS:				
CANCER	US CDC - Occ	cupational Carcinogens	Occupa	ational Carcinogen		
CANCER	CA EPA - Prop	0 65	Carcino	ogen - specific to chemical form or exposure route		
CANCER	IARC	IARC		Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources		
CANCER	US NIH - Repo	US NIH - Report on Carcinogens		to be Human Carcinogen (respirable size - occupational		
CANCER	MAK		Carcino	ogen Group 1 - Substances that cause cancer in man		
CANCER	New Zealand	- GHS	6.7A - F	Known or presumed human carcinogens		
CANCER	Japan - GHS	Japan - GHS		ogenicity - Category 1A		
CANCER	Australia - GH	S	H350 -	May cause cancer		

SUBSTANCE NOTES: This substance is a residual considered proprietary by the supplier; however, the health hazards are disclosed.

%: 0.0000 - 10.0000	GS: BM-2	RC: None	nano: No	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARNINGS:			

OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
EU - ESIS PBT	Fulfills PBT Criteria - Action Deferred
ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)
German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport
US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment
	Concern OSPAR - Priority PBTs & EDs & equivalent concern EU - ESIS PBT ChemSec - SIN List German FEA - Substances Hazardous to Waters EHP - San Antonio Statement on BFRs & CFRs

UNDISCLOSED

%: 0.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 10.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
SKIN IRRITATION	EU - GHS (H-Statements)		H315 - Causes skin irri	tation

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

%: 0.0000 - 5.0000	GS: BM-1	RC: None	nano: No	ROLE: Additive	
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:			
MAMMALIAN	EU - R-phrases	EU - R-phrases		R20 - Harmful by Inhalation (gas or vapor or dust/mist)	
MAMMALIAN	EU - R-phrases	EU - R-phrases		R22 - Harmful if Swallowed	
ACUTE AQUATIC	EU - R-phrases		R51 - Toxic to Aquati	ic Organisms	
CANCER	IARC	IARC		carcinogenic to humans	
CANCER	CA EPA - Prop 65	CA EPA - Prop 65			

CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Japan - GHS	Carcinogenicity - Category 1B

UNDISCLOSED

%: 0.0000 - 5.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Additive		
HAZARDS:	AGENCY(IES) WITH WARNING	GS:				
None Found	No warnings found on	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.						

UNDISCLOSED

%: 0.0000 - 2.0000	GS: BM-1	RC: None	NANO: No	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MULTIPLE	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters	3

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

%: 0.0000 - 1.000	0 GS: LT-P1	RC: None	nano: No	ROLE: Additive		
HAZARDS:	AGENCY(IES) WITH WARNII	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found o	No warnings found on HPD Priority lists				

%: 0.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Filler		
HAZARDS:	AGENCY(IES) WITH WARNINGS	5:				
None Found	No warnings found on F	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: This subs	SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.					

UNDISCLOSED

%: 0.0000 - 5.0000	GS: BM-3	RC: None	nano: No	ROLE: Flame Retardant		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 5.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Filler
HAZARDS:	AGENCY(IES) WITH WARNI	INGS:		
None Found	No warnings found o	on HPD Priority lists		
This subs	stance is considered prepriet		ar the negree term and beel	dia hamayda aya dia dagad

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 5.0000	GS: BM-1	RC: None	nano: No	ROLE: Flame Retardant	
HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:			
ACUTE AQUATIC	EU - R-phrases		R50 - Very Toxic to Aquatic Organisms		
RESPIRATORY	AOEC - Asthmag	AOEC - Asthmagens		Asthmagen (ARs) - sensitizer-induced - inhalable forms only	
ACUTE AQUATIC	EU - GHS (H-Sta	EU - GHS (H-Statements)		ery toxic to aquatic life M = 1000000	
CHRON AQUATIC	EU - GHS (H-Sta	EU - GHS (H-Statements)		ery toxic to aquatic life with long lasting effects	
RESTRICTED LIST	German FEA - Si	FEA - Substances Hazardous to Waters Cla		Hazard to Waters	

W: 0.0000 - 5.0000 GS: NoGS RC: None NANO: No ROLE: Flame Retardant HAZARDS: AGENCY(IES) WITH WARNINGS: None Found No warnings found on HPD Priority lists SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

PLENUM JACKET 3	%: 0.0000 - 31.9740	HPD URL:
PLENUM JACKET 3	%: U.UUUU - 31.974U	ULT OUT

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 ppm. Residuals were identified through supplier and consultant expertise regarding the substances disclosed. Any known impurities, unreacted inputs, and residuals were marked accordingly.

OTHER MATERIAL NOTES: Alternate to Plenum Jacket 1. All substances including residuals are disclosed to 1,000 ppm.

UNDISCLOSED

%: 30.0000 - 40.0000	GS: LT-P1	RC: None	nano: No	ROLE: Polymer
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens		Asthmagen (Rs) - sensitiz	er-induced

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 15.0000 - 25.0000	GS: BM-2	RC: None	nano: No	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens		Asthmagen (ARs) - sensit	izer-induced - inhalable forms only

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:		
CANCER	US CDC - Occup	US CDC - Occupational Carcinogens Occupational Carcinogen		
CANCER	CA EPA - Prop 6	CA EPA - Prop 65		gen - specific to chemical form or exposure route
CANCER	IARC		Group 1 - Agent is carcinogenic to humans - inhaled f	

		occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: This substance is a residual considered proprietary by the supplier; however, the health hazards are disclosed.

UNDISCLOSED

GS: BM-2	RC: None	nano: No	ROLE: Additive
AGENCY(IES) WITH WARNINGS:			
OSPAR - Priority PBTs & concern	EDs & equivalent	PBT - Chemical for Priority	Action
OSPAR - Priority PBTs & EDs & equivalent concern		Endocrine Disruptor - Chemical for Priority Action	
EU - ESIS PBT		Fulfills PBT Criteria - Action Deferred	
ChemSec - SIN List		PBT / vPvB (Persistent, Bio Persistent & very Bioaccum	paccumulative, & Toxic / very nulative)
German FEA - Substance	es Hazardous to Waters	Class 2 - Hazard to Waters	
EHP - San Antonio Statement on BFRs & CFRs		Flame retardant substance class of concern for PB&T & lo range transport	
US EPA - PPT Chemical	Action Plans	TSCA Work Plan chemical	- ongoing chemical (risk) assessment
	AGENCY(IES) WITH WARNINGS: OSPAR - Priority PBTs & concern OSPAR - Priority PBTs & concern EU - ESIS PBT ChemSec - SIN List German FEA - Substance EHP - San Antonio State	AGENCY(IES) WITH WARNINGS: OSPAR - Priority PBTs & EDs & equivalent concern OSPAR - Priority PBTs & EDs & equivalent concern EU - ESIS PBT ChemSec - SIN List German FEA - Substances Hazardous to Waters	AGENCY(IES) WITH WARNINGS: OSPAR - Priority PBTs & EDs & equivalent concern OSPAR - Priority PBTs & EDs & equivalent concern EU - ESIS PBT Fulfills PBT Criteria - Action ChemSec - SIN List PBT / vPvB (Persistent, Bio Persistent & very Bioaccum German FEA - Substances Hazardous to Waters EHP - San Antonio Statement on BFRs & CFRs Flame retardant substance range transport

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 10.0000	gs: LT-UNK	RC: None	NANO: No	ROLE: Additive			
HAZARDS:	AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: **0.0000 - 10.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Additive**

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		

UNDISCLOSED

%: 0.0000 - 5.0000	GS: BM-1	RC: None	nano: No	ROLE: Additive	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
MAMMALIAN	EU - R-phrases		R20 - Harmful by Inh	alation (gas or vapor or dust/mist)	
MAMMALIAN	EU - R-phrases		R22 - Harmful if Swa	llowed	
ACUTE AQUATIC	EU - R-phrases	EU - R-phrases		R51 - Toxic to Aquatic Organisms	
CANCER	IARC	IARC		Group 2b - Possibly carcinogenic to humans	
CANCER	CA EPA - Prop 65	CA EPA - Prop 65			
CHRON AQUATIC	EU - GHS (H-Staten	EU - GHS (H-Statements)		tic life with long lasting effects	
CANCER	EU - GHS (H-Staten	nents)	H351 - Suspected of	causing cancer	
MULTIPLE	ChemSec - SIN List	ChemSec - SIN List		Mutagen &/or Reproductive Toxicant	
CANCER	MAK	MAK		- Considered to be carcinogenic for man	
CANCER	Japan - GHS		Carcinogenicity - Cat	egory 1B	

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive			
HAZARDS:	AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 2.0000	GS: BM-1	RC: None	NANO: No	ROLE: Additive		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
MULTIPLE	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters	3		

%: 0.0000 - 2.0000	gs: LT-P1	RC: None	nano: No	ROLE: Additive				
HAZARDS:	AGENCY(IES) WITH WARNI	AGENCY(IES) WITH WARNINGS:						
ENDOCRINE	TEDX - Potential En	ential Endocrine Disruptors Potential Endocrine Disruptor						

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 5.0000	GS: LT-P1	RC: None	nano: No	ROLE: Additive			
HAZARDS:	AGENCY(IES) WITH WARN	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found of	No warnings found on HPD Priority lists					

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 2.0000	GS: LT-1	RC: None	nano: No	ROLE: Additive		
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:				
CANCER	US CDC - Occupat	US CDC - Occupational Carcinogens		ogen		
CANCER	CA EPA - Prop 65	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route		
CANCER	IARC	IARC		carcinogenic to humans - inhaled from		
ENDOCRINE	TEDX - Potential E	TEDX - Potential Endocrine Disruptors		Disruptor		
CANCER	MAK		Carcinogen Group 3/ sufficient to establish	A - Evidence of carcinogenic effects but not MAK/BAT value		

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 1.5000	GS: BM-3	RC: None	nano: No	ROLE: Additive		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found on HPD Priority lists					

%: 0.0000 - 1.0000	GS: LT-P1	RC: None	nano: No	ROLE: Additive		
HAZARDS:	AGENCY(IES) WITH WARN	INGS:				
None Found	No warnings found on HPD Priority lists					
SUBSTANCE NOTES: This subs	stance is considered propriet	ary by the supplier; howe	ver, the percentage and h	nealth hazards are disclosed.		

UNDISCLOSED

%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARNING	SS:		
None Found	No warnings found on	HPD Priority lists		
SUBSTANCE NOTES: This subs	stance is considered proprietary	y by the supplier; howeve	er, the percentage and he	alth hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 1.0000	GS: BM-3	RC: None	nano: No	ROLE: Additive	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
None Found	No warnings found on HPD Priority lists				

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

6: 0.0000 - 1.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARNING	S:		
None Found	No warnings found on	HPD Priority liete		

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 1.0000	GS: LT-UNK	rc: None	nano: No	ROLE: Additive		
HAZARDS:	AGENCY(IES) WITH WARNING	S:				
None Found	No warnings found on HPD Priority lists					
CLIDSTANCE NOTES. This cubs	stance is considered proprietary	, by the supplier: howeve	r the percentage and her	alth hazarde are disclosed		

%: 0.0000 - 1.0000	GS: LT-1	RC: None	nano: No	ROLE: Additive	
HAZARDS:	AGENCY(IES) WITH WAR	RNINGS:			
CANCER	US CDC - Occupational Carcinogens		Occupational Carcinogen		
CANCER	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route		
CANCER	IARC	IARC		carcinogenic to humans - inhaled from	
CANCER	MAK		Carcinogen Group 3 sufficient for classific	BB - Evidence of carcinogenic effects but not cation	

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

0.0000 - 5.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Filler
HAZARDS:	AGENCY(IES) WITH WARNINGS	:		
None Found	No warnings found on H	PD Priority lists		

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

UNDISCLOSED

%: 0.0000 - 5.0000	GS: BM-3	RC: None	nano: No	ROLE: Flame Retardant				
HAZARDS:	AGENCY(IES) WITH W.	AGENCY(IES) WITH WARNINGS:						
None Found	No warnings four	No warnings found on HPD Priority lists						

SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.

: 0.0000 - 5.0000	GS: BM-1	RC: None	nano: No	ROLE: Flame Retardant		
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:				
ACUTE AQUATIC	EU - R-phrases		R50 - Vei	ry Toxic to Aquatic Organisms		
RESPIRATORY	AOEC - Asthmaç	AOEC - Asthmagens		Asthmagen (ARs) - sensitizer-induced - inhalable forms onl		
ACUTE AQUATIC	EU - GHS (H-Sta	EU - GHS (H-Statements)		ery toxic to aquatic life M = 1000000		
CHRON AQUATIC	EU - GHS (H-Sta	EU - GHS (H-Statements)		ery toxic to aquatic life with long lasting effects		
RESTRICTED LIST	German FEA - S	ubstances Hazardous to Wate	ers Class 2 -	Hazard to Waters		

UNDISCLOSED

%: 0.0000 - 5.0000	gs: NoGS	RC: None	nano: No	ROLE: Flame Retardant			
HAZARDS:	AGENCY(IES) WITH WAI	RNINGS:					
None Found	No warnings found	No warnings found on HPD Priority lists					
SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.							

UNDISCLOSED

%: 0.0000 - 5.0000	GS: LT-P1	RC: None	nano: No	ROLE: Functional Filler			
HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:					
None Found	No warnings four	No warnings found on HPD Priority lists					
SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed.							

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

N/A

CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: All CERTIFICATE URL:

ISSUE DATE:0000-01-01

EXPIRY DATE:

CERTIFIER OR LAB: None

CERTIFICATION AND COMPLIANCE NOTES:

VOC EMISSIONS

Environmental Product Declaration

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Hoisington, KS, USA

CERTIFICATE URL:

http://ce.superioressex.com/about/environmental/

CERTIFICATION AND COMPLIANCE NOTES:

ISSUE DATE: 2014-06-06

EXPIRY DATE: 2019-

06-06

CERTIFIER OR LAB: UL Environment

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or

fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

POLYESTER PULL STRING

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Installers use wire pulling string as a safe means of pulling wire and cable in the installation. When using proper pulling string, it is possible to install cable without harming the installer or the product.



Section 5: General Notes

This Health Product Declaration was prepared by Sustainable Solutions Corporation of Royersford, Pennsylvania on behalf of Superior Essex.



Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Superior Essex

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LT-1 List Translator Likely Benchmark 1

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classi cation and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity PHY Physical Hazard (reactive) **GLO** Global warming **CAN** Cancer

REP Reproductive toxicity MAM Mammalian/systemic/organ toxicity **DEV** Developmental toxicity **MUL** Multiple hazards **RES** Respiratory sensitization

END Endocrine activity **NEU** Neurotoxicity SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity **OZO** Ozone depletion **LAN** Land Toxicity

GEN Gene mutation **PBT** Persistent Bioaccumulative Toxic NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical) LT-P1 List Translator Possible Benchmark 1

BM-2 Benchmark 2 (use but search for safer substitutes) LT-UNK List Translator Benchmark Unknown (insufficient information

BM-1 Benchmark 1 (avoid - chemical of high concern) from List Translator lists to benchmark) BM-U Benchmark Unspeci ed (insu cient data to benchmark) NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

Superior Essex 4-Pair Plenum Copper Cable: Category 6A STP (U/FTP)

BM-3 Benchmark 3 (use but still opportunity for improvement)

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None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per produc

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.