# Superior Essex 4-Pair Riser Copper Cable: Category 5e+ ScTP (F/UTP) by Superior Essex

# **Health Product** Declaration v2.1

created via: HPDC Online Builder

## CLASSIFICATION: 27 10 00.00 Communications: Structured Cabling

PRODUCT DESCRIPTION: This HPD covers the Superior Essex 4-Pair riser Category 5e+ ScTP (F/UTP) copper cable. Superior Essex offers Screen Twisted Pair (ScTP) shielded Category 5e+ cables in both plenum and riser versions. The cable has guaranteed performance out to 350 MHz and meets all applicable ANSI/TIA- 568-C.2 requirements. The cable consists of four balanced 24 AWG copper pairs. The core is wrapped with an aluminum foil tape and has a tin coated drain wire. The tape wrapped core is jacketed with the appropriate flexible PVC jacket for plenum or riser applications.

# Section 1: Summary

# **Nested Method / Product Threshold**

## **CONTENT INVENTORY**

## **Inventory Reporting Format**

- Nested Materials Method C Basic Method

### **Threshold Disclosed Per**

- O Material
- Product

Threshold level C 100 ppm • 1,000 ppm C Per GHS SDS C Per OSHA MSDS

C Other

### **Residuals/Impurities**

**Residuals/Impurities** Considered in 7 of 7 Materials

Explanation(s) provided for Residuals/Impurities? • Yes • No

Are All Substances Above the Threshold Indicated:

Characterized	• Yes O No
Percent Weight and Role Prov	vided?

• Yes O No Screened Using Priority Hazard Lists with Results Disclosed?

Identified

○ Yes ⊙ No

Name and Identifier Provided?

### 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

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 ] RISER INSULATION 1 [ UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | PBT | END UNDISCLOSED BM-1 | MAM | AQU | CAN | MUL UNDISCLOSED LT-UNK | PBT ] RISER INSULATION 2 [ UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-1 RES | END UNDISCLOSED LT-P1 UNDISCLOSED LT-P1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK ] RISER JACKET 2 [ UNDISCLOSED LT-P1 | RES UNDISCLOSED BM-2 | RES UNDISCLOSED LT-P1 | END UNDISCLOSED BM-2 | PBT | END | MUL UNDISCLOSED BM-1 | MAM | AQU | CAN | MUL UNDISCLOSED BM-1 | MUL UNDISCLOSED LT-1 CAN | DEL | MUL | END | REP UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | END | PBT | AQU | DEL | MUL | CAN UNDISCLOSED BM-3 UNDISCLOSED LT-P1 | RES UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | END UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | END UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 UNDISCLOSED LT-UNK ] RISER JACKET 3 [ UNDISCLOSED LT-P1 | RES UNDISCLOSED BM-2 | RES UNDISCLOSED LT-UNK UNDISCLOSED BM-3 UNDISCLOSED BM-2 | PBT | END | MUL UNDISCLOSED BM-1 | MUL UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | MAM | AQU | CAN | MUL UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN |

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Number of Greenscreen BM-4/BM3 contents ... 2

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

### CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings. VOC emissions: N/A

LCA: Environmental Product Declaration

#### CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? O Yes O No PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2017-12-05 PUBLISHED DATE: 2018-03-23 EXPIRY DATE: 2020-12-05 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

ELECTRICAL CONDUCTOR	%: 36.9360	HPD URL:
PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED:	/es

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: <b>No</b>	ROLE: Conductor	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPI	D Priority lists			
SUBSTANCE NOTES:					

ALUMINUM SHIELD	%: 6.4240	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.

			ID: <b>7429-90-5</b>
GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Alloy Metal
AGENCY(IES) WITH WARNI	NGS:		
AOEC - Asthmagen	s	Asthmagen (AR only	ts) - sensitizer-induced - inhalable forms
TEDX - Potential En	docrine Disruptors	Potential Endoo	crine Disruptor
EU - GHS (H-Staten	nents)	H228 - Flamma	ble solid
	AGENCY(IES) WITH WARNI AOEC - Asthmagen TEDX - Potential En	GS: LT-P1 RC: None   AGENCY(IES) WITH WARNINGS:   AOEC - Asthmagens   TEDX - Potential Endocrine Disruptors   EU - GHS (H-Statements)	AGENCY(IES) WITH WARNINGS: AOEC - Asthmagens TEDX - Potential Endocrine Disruptors Potential Endoc

PHYSICAL HAZARD (REACTI	IVE) EU - GHS (H-Statem	nents)	H250 - Catches fir	e spontaneously if exposed	to air
PHYSICAL HAZARD (REACTI	IVE) EU - GHS (H-Statem	nents)	H261 - In contact	with water releases flammab	ble gases
SUBSTANCE NOTES: Substance	e ranges based on supplie	r documentation.			
SILICON (SILICON)					ID: 7440-21-3
%: <b>1.0000 - 13.5000</b>	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Alloy Metal	
				,	
HAZARDS:	AGENCY(IES) WITH WARNIN	NGS:		,,	

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

MAGNESIUM (MAGNESIUM)				ID: <b>7439-95-</b>
%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Alloy Metal
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statement	ts)	H250 - Catches fir	e spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statement	ts)	H260 - In contact which may ignite s	with water releases flammable gases spontaneously

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

#### **MANGANESE (MANGANESE)** ID: 7439-96-5 %: 1.0000 - 2.0000 GS: **LT-P1** ROLE: Alloy Metal RC: None NANO: **NO** HAZARDS: AGENCY(IES) WITH WARNINGS: ENDOCRINE **TEDX - Potential Endocrine Disruptors** Potential Endocrine Disruptor MULTIPLE German FEA - Substances Hazardous to Class 2 - Hazard to Waters Waters REPRODUCTIVE Japan - GHS Toxic to reproduction - Category 1B SUBSTANCE NOTES: Substance ranges based on supplier documentation.

NICKEL (NICKEL)				ID: <b>74</b> 4	40-02-0
%: 1.0000 - 5.0000	GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Alloy Metal	
HAZARDS:	AGENCY(IES) WITH V	VARNINGS:			
CANCER	IARC		Group 1 - Age	nt is Carcinogenic to humans	

CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	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 repeated exposure
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	МАК	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

COPPER (COPPER)					ID: 7440-50-8
%: 0.1000 - 4.7000	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Alloy Metal	
HAZARDS:	AGENCY(IES) WITH WARNIN	NGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Substand	ce ranges based on supplie	er documentation.			
-					
IRON (IRON)					ID: <b>7439-89-6</b>

%: <b>0.1000 - 1.3000</b>	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Alloy Metal	
HAZARDS:	AGENCY(IES) WITH WAR	RNINGS:			
ENDOCRINE	TEDX - Potential	Endocrine Disruptors	Potential Endo	crine Disruptor	
SUBSTANCE NOTES: Substan	ce ranges based on supp	lier documentation.			
IN COATED DRAIN WI	RE	%: 3.4980		HPD URL:	
RODUCT THRESHOLD: 1000 p	opm	RESIDUALS AND IN	MPURITIES CONSIDER	RED: Yes	
an Faanse 4 Dain Diann Cannas					

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: <b>NO</b>	ROLE: Drain Wire	
HAZARDS:	AGENCY(IES) WITH WARNI	INGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Substance	ranges based on supplie	er documentation.			
TIN (TIN)					ID: 7440-31-5
%: 0.0100 - 2.0000	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Tin Coating	
HAZARDS:	AGENCY(IES) WITH WARNI	INGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Substance	ranges based on suppli	er documentation.			
RISER INSULATION 1		%: 0.0000 -	10.3720	HPD UR	Ŀ
	m		10.3720		L:
PRODUCT THRESHOLD: 1000 pp	Residuals are cons	RESIDUALS AND	IMPURITIES CONSIDERE	D: Yes iduals are disclosed t	o 1,000 ppm.
PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified 1	E Residuals are cons through supplier and	RESIDUALS AND idered as all substa consultant expertis	IMPURITIES CONSIDERE nces including res re regarding the su	D: Yes iduals are disclosed t	o 1,000 ppm.
RISER INSULATION 1 PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified to impurities, unreacted inpurities, unreacted inpurities, unreacted inpurities, and the second	e: Residuals are cons through supplier and ts, and residuals wer	RESIDUALS AND idered as all substa consultant expertis e marked according	IMPURITIES CONSIDERE nces including res re regarding the su	D: Yes iduals are disclosed t Ibstances disclosed. <i>I</i>	o 1,000 ppm. Any known
PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified to impurities, unreacted inpur OTHER MATERIAL NOTES: Alterna	e: Residuals are cons through supplier and ts, and residuals wer ate for Riser Insulatio	RESIDUALS AND idered as all substa consultant expertis e marked according on 2. All substances	IMPURITIES CONSIDERE nces including res e regarding the su gly. including residual	D: Yes iduals are disclosed t ibstances disclosed. <i>I</i> s are disclosed to 1,0	o 1,000 ppm. Any known
PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified to impurities, unreacted inpur	e: Residuals are cons through supplier and ts, and residuals wer	RESIDUALS AND idered as all substa consultant expertis e marked according	IMPURITIES CONSIDERE nces including res re regarding the su	D: Yes iduals are disclosed t Ibstances disclosed. <i>I</i>	o 1,000 ppm. Any known
PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified to impurities, unreacted inpur OTHER MATERIAL NOTES: Alterna %: 49.3700 HAZARDS:	E: Residuals are cons through supplier and ts, and residuals wer ate for Riser Insulatio GS: LT-UNK	RESIDUALS AND idered as all substa consultant expertis e marked according on 2. All substances RC: None	IMPURITIES CONSIDERE nces including res e regarding the su gly. including residual	D: Yes iduals are disclosed t ibstances disclosed. <i>I</i> s are disclosed to 1,0	o 1,000 ppm. Any known
PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified to impurities, unreacted inpur OTHER MATERIAL NOTES: Alterna %: 49.3700	E: Residuals are cons through supplier and ts, and residuals wer ate for Riser Insulatio GS: LT-UNK	RESIDUALS AND idered as all substa consultant expertis e marked according on 2. All substances RC: None	IMPURITIES CONSIDERE nces including res e regarding the su gly. including residual	D: Yes iduals are disclosed t ibstances disclosed. <i>I</i> s are disclosed to 1,0	o 1,000 ppm. Any known
PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified to impurities, unreacted inpur OTHER MATERIAL NOTES: Alterna %: 49.3700 HAZARDS:	E: Residuals are cons through supplier and ts, and residuals wer ate for Riser Insulatio GS: LT-UNK AGENCY(IES) WITH WARNIN No warnings found	RESIDUALS AND idered as all substa consultant expertis e marked according on 2. All substances RC: None NGS: on HPD Priority lists	IMPURITIES CONSIDERE nces including res re regarding the su gly. including residual	D: Yes siduals are disclosed to obstances disclosed. A s are disclosed to 1,0 ROLE: Copolymer	o 1,000 ppm. Any known 00 ppm.
PRODUCT THRESHOLD: 1000 pp RESIDUALS AND IMPURITIES NOTES Residuals were identified to impurities, unreacted inpur OTHER MATERIAL NOTES: Alterna %: 49.3700 HAZARDS: None Found	E: Residuals are cons through supplier and ts, and residuals wer ate for Riser Insulatio GS: LT-UNK AGENCY(IES) WITH WARNIN No warnings found	RESIDUALS AND idered as all substa consultant expertis e marked according on 2. All substances RC: None NGS: on HPD Priority lists	IMPURITIES CONSIDERE nces including res re regarding the su gly. including residual	D: Yes siduals are disclosed to obstances disclosed. A s are disclosed to 1,0 ROLE: Copolymer	o 1,000 ppm. Any known 00 ppm.

 Maximum
 Maximum
 Maximum
 Maximum
 Maximum

 HAZARDS:
 AGENCY(IES) WITH WARNINGS:

 PBT
 OSPAR - Priority PBTs & EDs & equivalent concern
 PBT - Chemical for Priority Action

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ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
РВТ	ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)
РВТ	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport

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

%: <b>12.3600</b>	GS: <b>BM-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WAF	RNINGS:		
MAMMALIAN	EU - R-phrases		R20 - Harmful by Ir	halation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases		R22 - Harmful if Sw	vallowed
ACUTE AQUATIC	EU - R-phrases		R51 - Toxic to Aqua	atic Organisms
CANCER	IARC		Group 2b - Possibl	y carcinogenic to humans
CANCER	CA EPA - Prop 65	5	Carcinogen	
CHRON AQUATIC	EU - GHS (H-Stat	ements)	H411 - Toxic to aqu	uatic life with long lasting effects
CANCER	EU - GHS (H-Stat	ements)	H351 - Suspected	of causing cancer
MULTIPLE	ChemSec - SIN L	ist	CMR - Carcinogen,	, Mutagen &/or Reproductive Toxicant
CANCER	МАК		Carcinogen Group man	2 - Considered to be carcinogenic for
CANCER	Japan - GHS		Carcinogenicity - C	Category 1B

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

%: <b>0.3300</b>	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Additive
HAZARDS:	AGENCY(IES) WITH WARNINGS	:		
РВТ	EU - ESIS PBT		Under PBT evaluatio	'n
SUBSTANCE NOTES: This s	substance is considered propriet	ary by the supplier; ho	wever, the percentage	and health hazards are disclosed.
<b>RISER INSULATION 2</b>	2	%: 0.0000 - 10	).3720	HPD URL:
PRODUCT THRESHOLD: 100	0 ppm	RESIDUALS AND IM	PURITIES 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 Riser Insulation 1. All substances including residuals are disclosed to 1,000 ppm.

	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Proprietary
HAZARDS:	AGENCY(IES) WITH WARNI	NGS:		
None Found	No warnings found	on HPD Priority lists		
SUBSTANCE NOTES: This S	ubstance is considered propr	ietary by the supplier	; however, the percent	age and health hazards are disclo
%: <b>0.7000</b>	gs: <b>LT-UNK</b>	RC: None	NANO: <b>NO</b>	ROLE: Proprietary
HAZARDS:	AGENCY(IES) WITH WARNII	NGS:		
None Found	No warnings found	on HPD Priority lists		
%: 0.6800	GS: LT-1	RC: None	NANO: <b>No</b>	age and health hazards are disclo
HAZARDS:	AGENCY(IES) WITH WARNII			
RESPIRATORY	AOEC - Asthmagen			- sensitizer-induced
RESPIRATORY	EU - GHS (H-Staten	nents)	H334 - May caus difficulties if inha	se allergy or asthma symptoms or brea aled
ENDOCRINE	EU - SVHC Authoris	ation List	Equivalent Conc	ern - Prioritized for Listing
SUBSTANCE NOTES: This S	ubstance is considered propr	ietary by the supplier	; however, the percent	age and health hazards are disclo
%: <b>0.6500</b>	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Proprietary
HAZARDS:	AGENCY(IES) WITH WARNII	NGS:		
HAZARDS:		on HPD Priority lists		
None Found	No warnings found	on HPD Priority lists	; however, the percent	age and health hazards are disclo

CANCER	Japan - GHS		Carcinogenicity -	Category 1A
SUBSTANCE NOTES: This substar	nce is considered propriet	ary by the supplier;	however, the percenta	ge and health hazards are disclosed.
%: <b>0.1700</b>	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Proprietary
HAZARDS:	AGENCY(IES) WITH WARNINGS	i:		
None Found	No warnings found on	HPD Priority lists		
SUBSTANCE NOTES: This substar	nce is considered propriet	ary by the supplier;	however, the percenta	ge and health hazards are disclosed.
%: <b>0.0100</b>	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Proprietary
HAZARDS:	AGENCY(IES) WITH WARNINGS	:		
None Found	No warnings found on	HPD Priority lists		
RISER JACKET 2		%: 0.0000 -	42.7650	HPD URL:
PRODUCT THRESHOLD: 1000 ppm	1	RESIDUALS AND	IMPURITIES CONSIDERED	· Yes
	rough supplier and co s, and residuals were r	nsultant expertis	e regarding the sul gly.	duals are disclosed to 1,000 ppm ostances disclosed. Any known e disclosed to 1,000 ppm.
%: 24.0000 - 47.0000	GS: <b>LT-P1</b>	RC: None	NANO: <b>No</b>	ROLE: Polymer
HAZARDS:	AGENCY(IES) WITH WARNINGS	6:		
RESPIRATORY				
	AOEC - Asthmagens		Asthmagen (Rs) -	sensitizer-induced
SUBSTANCE NOTES: This substar		ary by the supplier;		sensitizer-induced ge and health hazards are disclosed.
SUBSTANCE NOTES: This substar %: 20.0000 - 40.0000	nce is considered propriet	ary by the supplier; ac: <b>None</b>	however, the percenta	

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AOEC - Asthmagens

RESPIRATORY

			only	
SUBSTANCE NOTES: This subst	tance is considered prop	rietary by the supplier; how	vever, the percent	age and health hazards are disclosed
6: <b>5.0000 - 10.0000</b>	GS: <b>LT-P1</b>	RC: None	NANO: <b>No</b>	ROLE: Plasticizer
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
ENDOCRINE	ChemSec - SIN Lis	t	Endocrine Disru	ption
SUBSTANCE NOTES: This subst	tance is considered propi	rietary by the supplier; how	vever, the percent	age and health hazards are disclosed
5.0000 - 10.0000	GS: <b>BM-2</b>	RC: None	NANO: <b>No</b>	ROLE: Plasticizer
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
PBT	OSPAR - Priority Pl concern	BTs & EDs & equivalent	PBT - Chemical	for Priority Action
ENDOCRINE	OSPAR - Priority P concern	BTs & EDs & equivalent	Endocrine Disru	otor - Chemical for Priority Action
РВТ	EU - ESIS PBT		Fulfills PBT Crite	ria - Action Deferred
РВТ	ChemSec - SIN Lis	t		sistent, Bioaccumulative, & Toxic / very / Bioaccumulative)
MULTIPLE	German FEA - Subs Waters	stances Hazardous to	Class 2 - Hazard	to Waters
PBT	EHP - San Antonio	Statement on BFRs & CFRs	Flame retardant long range trans	substance class of concern for PB&T & port
RESTRICTED LIST	US EPA - PPT Che	mical Action Plans	TSCA Work Plan assessment	chemical - ongoing chemical (risk)
	tance is considered prop	ioton, by the supplior boy	vever, the percent	age and health hazards are disclosed
SUBSTANCE NOTES: This subs		letary by the supplier, not	, po	
	GS: <b>BM-1</b>			ROLE: Flame Retardant
		RC: None NAM		
6: <b>1.0000 - 5.0000</b>	GS: <b>BM-1</b>	RC: None NAM	10: <b>No</b> F	
6: <b>1.0000 - 5.0000</b> HAZARDS:	GS: <b>BM-1</b> AGENCY(IES) WITH WARN	RC: None NAM	10: <b>No</b> F	ROLE: Flame Retardant
6: <b>1.0000 - 5.0000</b> HAZARDS: MAMMALIAN	GS: <b>BM-1</b> AGENCY(IES) WITH WARN <b>EU - R-phrases</b>	RC: None NAM	IO: <b>No</b> R20 - Harmful by R22 - Harmful if	ROLE: Flame Retardant
6: 1.0000 - 5.0000 HAZARDS: MAMMALIAN MAMMALIAN	GS: <b>BM-1</b> AGENCY(IES) WITH WARN EU - R-phrases EU - R-phrases	RC: None NAM	IO: <b>No</b> R20 - Harmful by R22 - Harmful if R51 - Toxic to A	ROLE: Flame Retardant / Inhalation (gas or vapor or dust/mist) Swallowed

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CHRON AQUATIC	EU - GHS (H-Stateme	ents)	H411 - Toxic to	aquatic life with long lasting effects
CANCER	EU - GHS (H-Stateme	ents)	H351 - Suspect	ted of causing cancer
MULTIPLE	ChemSec - SIN List		CMR - Carcino	gen, Mutagen &/or Reproductive Toxicant
CANCER	МАК		Carcinogen Gro man	oup 2 - Considered to be carcinogenic for
CANCER	Japan - GHS		Carcinogenicity	/ - Category 1B
SUBSTANCE NOTES: This substance	is considered proprie	tary by the supplier; he	owever, the percer	ntage and health hazards are disclosed.
%: 1.0000 - 5.0000	GS: <b>BM-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Char Former
HAZARDS:	AGENCY(IES) WITH WARNING	S:		
MULTIPLE	German FEA - Substa Waters	ances Hazardous to	Class 2 - Hazar	d to Waters
SUBSTANCE NOTES: This substance	is considered proprie	tary by the supplier; he	owever, the percer	ntage and health hazards are disclosed.
%: 0.1000 - 5.0000	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	ROLE: Plasticizer
HAZARDS:	AGENCY(IES) WITH WARNING	iS:		
CANCER	CA EPA - Prop 65		Carcinogen	
DEVELOPMENTAL	US NIH - Reproductiv Monographs	ve & Developmental	Some Evidence Toxicity	e of Adverse Effects - Developmental
RESTRICTED LIST	US EPA - PPT Chemi	cal Action Plans	EPA Chemical of	of Concern - Action Plan published
ENDOCRINE	ChemSec - SIN List		Endocrine Disru	uption
ENDOCRINE	TEDX - Potential Ende	ocrine Disruptors	Potential Endo	crine Disruptor
REPRODUCTIVE	US EPA - PPT Chemi	cal Action Plans	Reproductive e	ffects
SUBSTANCE NOTES: This substance	is considered proprie	tary by the supplier; he	owever, the percer	ntage and health hazards are disclosed.
%: 0.1000 - 5.0000	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Lubricant
HAZARDS:	AGENCY(IES) WITH WARNING	IS:		
None Found	No warnings found or	n HPD Priority lists		
SUBSTANCE NOTES: This substance	is considered proprie	tary by the supplier; he	owever, the percer	ntage and health hazards are disclosed.

		NANO: No ROLE: Plasticizer
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
РВТ	EU - ESIS PBT	Under PBT evaluation
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) the Environment (based on aquatic organisms)
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
РВТ	EHP - San Antonio Statement on BFRs & CFF	Rs Flame retardant substance class of concern for PB&T & long range transport
CHRON AQUATIC	US EPA - PPT Chemical Action Plans	Highly toxic to aquatic organisms
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment
CANCER	МАК	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
DEVELOPMENTAL	Australia - GHS	H362 - May cause harm to breast-fed children
SUBSTANCE NOTES: This sub	stance is considered proprietary by the supplier; h	owever, the percentage and health hazards are disclose
		owever, the percentage and health hazards are disclose NANO: No ROLE: Filler
0.1000 - 0.5000	GS: <b>BM-3</b> RC: <b>None</b>	
: <b>0.1000 - 0.5000</b> HAZARDS: None Found	GS: <b>BM-3</b> RC: <b>None</b> AGENCY(IES) WITH WARNINGS: No warnings found on HPD Priority lists	NANO: No ROLE: Filler
: <b>0.1000 - 0.5000</b> HAZARDS: None Found	GS: <b>BM-3</b> RC: <b>None</b> AGENCY(IES) WITH WARNINGS: No warnings found on HPD Priority lists stance is considered proprietary by the supplier; h	
0.1000 - 0.5000 HAZARDS: None Found SUBSTANCE NOTES: This subs	GS: <b>BM-3</b> RC: <b>None</b> AGENCY(IES) WITH WARNINGS: No warnings found on HPD Priority lists stance is considered proprietary by the supplier; h	NANO: No ROLE: Filler

%: 0.0100 - 1.0000	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Thermal Stabilizer
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
None Found	No warnings found	on HPD Priority lists		
SUBSTANCE NOTES: This sub	stance is considered prop	rietary by the supplie	er; however, the perce	entage and health hazards are disclos
%: <b>0.0000 - 1.0000</b>	GS: NoGS	RC: None	NANO: <b>NO</b>	ROLE: Lubricant
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
None Found	No warnings found	on HPD Priority lists		
OUROTANOE NOTED. This cub	stance is considered prop	istony by the supplic	r however the perc	entage and health hazards are disclos
SUBSTANCE NOTES: THIS SUD	stance is considered propi	netary by the supplie	er, nowever, the perce	entage and nearth hazards are disclos
%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Lubricant
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
None Found	No warnings found	on HPD Priority lists		
SUBSTANCE NOTES: This sub	stance is considered prop	rietary by the supplie	er; however, the perc	entage and health hazards are disclos
%: 0.0000 - 1.5000	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Lubricant
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
ENDOCRINE	TEDX - Potential E	ndocrine Disruptors	Potential End	ocrine Disruptor
SUBSTANCE NOTES: This sub	stance is considered prop	rietary by the supplie	er; however, the perce	entage and health hazards are disclos
%: <b>0.0000 - 1.0000</b>	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Thermal Stabilizer
HAZARDS:	AGENCY(IES) WITH WARN	INGS:		
None Found	No warnings found	on HPD Priority lists		
SUBSTANCE NOTES: This sub	stance is considered prop	rietary by the supplie	er; however, the perc	entage and health hazards are disclos
		N		
%: 0.0000 - 1.0000	GS: LT-P1	RC: None	NANO: <b>NO</b>	ROLE: Lubricant

NAZERCYNES       MAERCYNES WITH WARRINGS:         None Found       No warnings found on HPD Priorty llats         Staartwee Notes: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed         No.0000 - 1.0000       Gis LT-P1       Re: None       MANO: No       ROLE: Thermal Stabilizer         Nozaros:       Addreynes With WARRINGS:       Addreynes With WARRINGS       ROLE: Thermal Stabilizer         None Found       No warnings found on HPD Priorty lists       ROLE: Thermal Stabilizer       ROLE: Antioxidant         Substrance Notes: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed       ROLE: Antioxidant         Nozaros:       Addreynes With WARRINGS:       ROLE: Antioxidant         Nozaros:       Addreynes With WARRINGS       ROLE: Antioxidant         Nozaros:       Addreynes With WARRINGS       ROLE: Antioxidant         Nozaros:       No warnings found on HPD Priorty lists       ROLE: Antioxidant         ROLE: Notes: This substance is considered proprietary by the supplier; however; the percentage and health hazards are disclosed         SEER JACKET 3       %: 0.0000 - 42.7650       HPD URL:         SOULS AND IMPURTIES NOTES: The substances including residuals are disclosed to 1,000 pp       RESEQUALS AND IMPURTIES CONSIDERED: Yes         SOUALS AND IMPURTIES NOTES: Residuals are con	HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:		
No.0000 - 1.0000       GS LT-UNK       NC None       NUME: No       NOLE: Thermal Stabilizer         NONE Found       No warnings found on HPD Priority lists         Substrates       None Found       No warnings found on HPD Priority lists         No.0000 - 1.0000       CS: LT-P1       NC: None       NAME: No         No.0000 - 1.0000       CS: LT-P1       NC: None       NAME: No         No.0000 - 1.0000       CS: LT-P1       NC: None       NAME: No         No.0000 - 1.0000       CS: LT-P1       NC: None       NAME: No         No.0000 - 1.0000       CS: LT-P1       NC: None       NAME: No         No.0000 - 1.0000       CS: LT-P1       NC: None       NAME: No         No.0000 - 0.0000       CS: LT-UNK       NC: None       NAME: No         No.0000 - 0.5000       CS: LT-UNK       NC: None       NAME: NO         No.0000 - 0.5000       CS: LT-UNK       NC: None       NAME: NO         No.0000 - 0.5000       CS: LT-UNK       NC: None       NAME: NO         No.0000 - 0.5000       CS: LT-UNK       NC: None       NOLE: Antioxidant         No.0000 - 0.5000       CS: LT-UNK       NC: None       NOLE: Antioxidant         No.0000 - 0.5000       CS: LT-UNK       NC: NONE       PDURL:	ENDOCRINE	TEDX - Potentia	al Endocrine Disruptors	Potential E	ndocrine Disruptor
NACKARGES       AUGENCINES WITH WARRHIGS:         None Found       No warnings found on HPD Priority lists         accounces. This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed         accounces.       Augencines with Warrhings         No.0000 - 1.0000       de LT-P1         accounces.       Augencines with Warrhings         None Found       No warnings found on HPD Priority lists         accounces.       No warnings found on HPD Priority lists         accounces.       No warnings found on HPD Priority lists         accounces.       Augencines with Warrhings         accounces.       No warnings found on HPD Priority lists         accounces.       Augencines with Warrhings         No warnings found on HPD Priority lists       Incl. Autioxidant         accounces.       No warnings found on HPD Priority lists         accounces.       No warnings found	SUBSTANCE NOTES: This subst	ance is considered pr	oprietary by the supp	lier; however, the pe	rcentage and health hazards are disclo
None Found       No warnings found on HPD Priority lists         substraces Notes: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed         No.0000 - 1.0000       Git LT-P1       R: None       Note: No       RCE: Thermal Stabilizer         NORe Found       Git LT-P1       R: None       Note: No       RCE: Thermal Stabilizer         None Found       No warnings found on HPD Priority lists       Image: Stabilizer       Image: Stabilizer         No 0000 - 0.5000       Git LT-UNK       RC: None       NAND: No       RCE: Antioxidant         Nozeros:       Adstructs: WIN WREENDE:       Image: Stabilizer       Image: Stabilizer       Image: Stabilizer         None Found       No warnings found on HPD Priority lists       Image: Stabilizer       Image: Stabilizer       Image: Stabilizer         None Found       No warnings found on HPD Priority lists       Image: Stabilizer       Image: Stabilizer       Image: Stabilizer         None Found       No warnings found on HPD Priority lists       Image: Stabilizer       Image: Stabilizer       Image: Stabilizer         Stabilizer       More Mount - 42.7650       HPD URL:       Image: Stabilizer       Image: Stabilizer       Image: Stabilizer         Stabilizer       %: 0.0000 - 42.7650       HPD URL:       Image: Stabilizer       Image:	%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Thermal Stabilizer
SUBSTANCE MOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed         No.0000 - 1.0000       GS: LT-P1       NC: None       NANC: NO       ROLE: Thermal Stabilizer         NORe Found       No warnings found on HPD Priority lists       Image: Considered proprietary by the supplier; however, the percentage and health hazards are disclosed         No.0000 - 0.0000       GS: LT-UNK       nc: None       NANC: NO       NOLE: Antioxidant         NORe Found       No warnings found on HPD Priority lists       Image: None       NANC: NO       NOLE: Antioxidant         No.0000 - 0.0000       GS: LT-UNK       nc: None       NANC: NO       NOLE: Antioxidant         NORe Found       No warnings found on HPD Priority lists       Image: None       Image: None       Image: None         SEER JACKET 3       %: 0.0000 - 42.7650       HPD URL:       Image: None       Image: None       HPD URL:         COULT THRESHOLD: 1000 ppm       RESIDUALS AND IMPURTIES CONSIDERED: Yes       Image: None       HPD URL:       Image: None	HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
No. 0.0000 - 1.0000 Gold LT-P1 RC None ROLE: Thermal Stabilizer   NAME ACCHARGES WITH WARNESS:   None Found No warnings found on HPD Priority lists   ausstrance Notes: This substance is considered proprietary by the supplier, however, the percentage and health hazards are disclosed   nc. 0.0000 - 0.5000 Gold LT-UNK   nc. None None Found   No warnings found on HPD Priority lists   sc. 0.0000 - 0.5000 Gold LT-UNK   None Found None Sound on HPD Priority lists   None Found No warnings found on HPD Priority lists   Substrance Notes: This substance is considered proprietary by the supplier, however, the percentage and health hazards are disclosed   SEER JACKET 3 %: 0.0000 - 42.7650   SEER JACKET 3 %: 0.0000 - 42.7650   HPD URL:   could: THRESHOLD: 1000 ppm   RESIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 pp   SEER JACKET 3   %: 0.0000 - 42.7650   HPD URL:   Note: Thermal Stabilizer   Note: Thermal Stabilizer	None Found	No warnings for	und on HPD Priority lists	3	
NUCLARENE:       ALERECYTIES WITH WARRINGS:         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         No. 0.0000 - 0.5000       as: LT-UNK       Rc: None       NANO: No       ROLE: Antioxidant         NOR Found       No warnings found on HPD Priority lists       RC: None       NANO: No       ROLE: Antioxidant         NOR Found       No warnings found on HPD Priority lists       RC: None       NONO: NO       RC: Antioxidant         SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed       SEE JACKET 3       %: 0.0000 - 42.7650       HPD URL:         SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed       SEE JACKET 3       %: 0.0000 - 42.7650       HPD URL:         SUBJALS AND IMPURTIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 ppm       RESIDUALS AND IMPURTIES CONSIDERED: Yes       SUBJALS AND IMPURTIES NOTES: Hessiduals are disclosed to 1,000 ppm.         WE AND WARTERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.       RE: None       NANO: NO       RUE: Polymer	SUBSTANCE NOTES: This substa	ance is considered pr	oprietary by the supp	lier; however, the pe	rcentage and health hazards are disclo
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         No.0000 - 0.5000       GS: LT-UNK       RC: None       NANO: No       ROLE: Antioxidant         HAZARDO:       AGENCYRES WITH WARNINGE:       No warnings found on HPD Priority lists       ROLE: Antioxidant         SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed       RESER JACKET 3       %: 0.0000 - 42.7650       HPD URL:         SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed       RESER JACKET 3       %: 0.0000 - 42.7650       HPD URL:         SUBSTANCE NOTES: This substance is considered as all substances including residuals are disclosed to 1,000 pp       RESIDUALS AND IMPURITES CONSIDERED: Yes         SUBULALS AND IMPURITES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 pp       RESIDUALS AND IMPURITES CONSIDERED: Yes         SUBULALS WERE Identified through supplier and consultant expertise regarding the substances disclosed. Any known puprities, unreacted inputs, and residuals were warked accordingly.         HER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         %: 38.0000 - 40.0000       GS: LT-P1       ROLE NOTE: NANO: NO       ROLE: Polymer <td>%: <b>0.0000 - 1.0000</b></td> <td>GS: LT-P1</td> <td>RC: None</td> <td>nano: <b>No</b></td> <td>ROLE: Thermal Stabilizer</td>	%: <b>0.0000 - 1.0000</b>	GS: LT-P1	RC: None	nano: <b>No</b>	ROLE: Thermal Stabilizer
SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed         SE: 0.0000 - 0.5000       GS: LT-UNK       RC: None       NANC: No       ROLE: Antioxidant         MADEROVES       AGENOVESS WITH WARNINGS:       Image: Considered proprietary by the supplier; however, the percentage and health hazards are disclosed         SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed         SEER JACKET 3       %: 0.0000 - 42.7650       HPD URL:         ODUCT THRESHOLD: 1000 ppm       RESIDUALS AND IMPURITIES CONSIDERED: Yes         SIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 pp metaiduals were identified through supplier and consultant expertise regarding the substances disclosed. Any known upurities, unreacted inputs, and residuals were marked accordingly.         MER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         %: 38.000 - 40.0000       GS: LT-P1       NANO: NO       ROLE: Polymer       ROLE: Polymer	HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
No. 0.0000 - 0.5000       GS: LT-UNK       RC: None       NANC: No       ROLE: Antioxidant         MAZARDS:       AGENCYRES! 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         SER JACKET 3       %: 0.0000 - 42.7650       HPD URL:         ODUCT THRESHOLD: 1000 ppm       RESIDUALS AND IMPURITIES CONSIDERED: Yes         SIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 pp         BER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         HER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         %: 38.0000 - 40.0000       GS: LT-P1         RC: None       NAND: NO	None Found	No warnings fou	und on HPD Priority lists	3	
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         SER JACKET 3       %: 0.0000 - 42.7650         MD URL:         ODUCT THRESHOLD: 1000 ppm       RESIDUALS AND IMPURITIES CONSIDERED: Yes         SIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 pp         setuals were identified through supplier and consultant expertise regarding the substances disclosed. Any known appurities, unreacted inputs, and residuals were marked accordingly.         HER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         %: 38.0000 - 40.0000       GS: LT-P1         RC: None       NANO: No         ROLE: Polymer	%: 0.0000 - 0.5000	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Antioxidant
SUBSTANCE NOTES: This substance is considered proprietary by the supplier; however, the percentage and health hazards are disclosed         SER JACKET 3       %: 0.0000 - 42.7650       HPD URL:         ODUCT THRESHOLD: 1000 ppm       RESIDUALS AND IMPURITIES CONSIDERED: Yes         SIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 pp         esiduals were identified through supplier and consultant expertise regarding the substances disclosed. Any known upurities, unreacted inputs, and residuals were marked accordingly.         HER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         %: 38.000 - 40.0000       GS: LT-P1         RC: None       NANO: No         ROLE: Polymer	HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
SER JACKET 3       %: 0.0000 - 42.7650       HPD URL:         ODUCT THRESHOLD: 1000 ppm       RESIDUALS AND IMPURITIES CONSIDERED: Yes         SIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 pp         esiduals were identified through supplier and consultant expertise regarding the substances disclosed. Any known apurities, unreacted inputs, and residuals were marked accordingly.         HER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         %: 38.0000 - 40.0000       GS: LT-P1         RC: None       NANO: NO         ROLE: Polymer	None Found	No warnings fou	und on HPD Priority lists	3	
ODUCT THRESHOLD: 1000 ppm       RESIDUALS AND IMPURITIES CONSIDERED: Yes         SIDUALS AND IMPURITIES NOTES:       Residuals are considered as all substances including residuals are disclosed to 1,000 pp         esiduals were identified through supplier and consultant expertise regarding the substances disclosed. Any known apurities, unreacted inputs, and residuals were marked accordingly.         HER MATERIAL NOTES:       Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.         %:       38.0000 - 40.0000       GS: LT-P1       RC: None       NANC: No       ROLE: Polymer	SUBSTANCE NOTES: This subst	ance is considered pr	oprietary by the supp	lier; however, the pe	rcentage and health hazards are disclo
SIDUALS AND IMPURITIES NOTES: Residuals are considered as all substances including residuals are disclosed to 1,000 presiduals were identified through supplier and consultant expertise regarding the substances disclosed. Any known apurities, unreacted inputs, and residuals were marked accordingly. HER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm.					
esiduals were identified through supplier and consultant expertise regarding the substances disclosed. Any known opurities, unreacted inputs, and residuals were marked accordingly. HER MATERIAL NOTES: Alternate to Riser Jacket 2. All substances including residuals are disclosed to 1,000 ppm. %: 38.0000 - 40.0000 GS: LT-P1 RC: None NANO: NO ROLE: Polymer	ISER JACKET 3		%: 0.000	00 - 42.7650	HPD URL:
%: <b>38.0000 - 40.0000</b> GS: <b>LT-P1</b> RC: <b>None</b> NANO: <b>No</b> ROLE: <b>Polymer</b>	ISER JACKET 3 RODUCT THRESHOLD: 1000 pp	 m			
	CODUCT THRESHOLD: 1000 pp SIDUALS AND IMPURITIES NOTES esiduals were identified t	Residuals are co through supplier ar	RESIDUALS nsidered as all sul nd consultant exp	AND IMPURITIES CONS	IDERED: Yes g residuals are disclosed to 1,00
HAZARDS: AGENCY(IES) WITH WARNINGS:	CODUCT THRESHOLD: 1000 pp SIDUALS AND IMPURITIES NOTES esiduals were identified to apurities, unreacted inpur	e: Residuals are co through supplier ar ts, and residuals w	RESIDUALS nsidered as all sul nd consultant expo vere marked accor	AND IMPURITIES CONS ostances includin ertise regarding th dingly.	IDERED: Yes g residuals are disclosed to 1,00 ne substances disclosed. Any kn
	CODUCT THRESHOLD: 1000 pp SIDUALS AND IMPURITIES NOTES esiduals were identified to apurities, unreacted inpur	e: Residuals are co through supplier ar ts, and residuals w ate to Riser Jacket	RESIDUALS Insidered as all sul Ind consultant expo vere marked accor t 2. All substances	AND IMPURITIES CONS ostances includin ertise regarding th rdingly. including residua	IDERED: Yes g residuals are disclosed to 1,00 ne substances disclosed. Any kn Ils are disclosed to 1,000 ppm.

RESPIRATORY	AOEC - Asthma	gens	Asthmage	n (Rs) - sensitizer-induced
SUBSTANCE NOTES: This sub	stance is considered pro	oprietary by the supp	lier; however, the p	ercentage and health hazards are disclose
6: <b>26.0000 - 28.0000</b>	GS: <b>BM-2</b>	RC: None	NANO: <b>NO</b>	ROLE: Flame Retardant
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
RESPIRATORY	AOEC - Asthma	gens	Asthmage only	n (ARs) - sensitizer-induced - inhalable forms
SUBSTANCE NOTES: This sub	stance is considered pro	oprietary by the supp	lier; however, the p	ercentage and health hazards are disclose
a: <b>10.0000 - 12.0000</b>	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Softening Additive
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
None Found	No warnings for	und on HPD Priority lists	3	
6: <b>6.5000 - 7.5000</b>	GS: <b>BM-3</b>	RC: None	NANO: <b>No</b>	ROLE: Flame Retardant
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
None Found	No warnings for	Ind on HPD Priority lists	3	
SUBSTANCE NOTES: This sub	stance is considered pro	oprietary by the supp	lier; however, the p	ercentage and health hazards are disclose
6.0000 - 7.0000	GS: <b>BM-2</b>	RC: None	NANO: <b>No</b>	ROLE: Softening Additive
	GS: <b>BM-2</b> AGENCY(IES) WITH W		nano: <b>No</b>	ROLE: Softening Additive
e: <b>6.0000 - 7.0000</b> HAZARDS: <b>PBT</b>	AGENCY(IES) WITH W			ROLE: Softening Additive
HAZARDS:	AGENCY(IES) WITH W OSPAR - Priority concern	ARNINGS:	ent PBT - Che	
HAZARDS:	AGENCY(IES) WITH W OSPAR - Priority concern OSPAR - Priority	ARNINGS: y PBTs & EDs & equival	ent PBT - Che ent Endocrine	emical for Priority Action
PBT	AGENCY(IES) WITH W OSPAR - Priority concern OSPAR - Priority concern	ARNINGS: y PBTs & EDs & equival y PBTs & EDs & equival	ent PBT - Che ent Endocrine Fulfills PB PBT / vPv	emical for Priority Action Disruptor - Chemical for Priority Action
HAZARDS: PBT ENDOCRINE PBT	AGENCY(IES) WITH W OSPAR - Priority concern OSPAR - Priority concern EU - ESIS PBT ChemSec - SIN	ARNINGS: y PBTs & EDs & equival y PBTs & EDs & equival	ent PBT - Che ent Endocrine Fulfills PB PBT / vPv Persistent	emical for Priority Action • Disruptor - Chemical for Priority Action T Criteria - Action Deferred B (Persistent, Bioaccumulative, & Toxic / very

Superior Essex 4-Pair Riser Copper Cable: Category 5e+ ScTP (F/UTP) hpdrepository.hpd-collaborative.org

			long range tra	ansport	
RESTRICTED LIST	US EPA - PPT Che	mical Action Plans	TSCA Work F assessment	Plan chemical - ongoing chemical (risk)	
SUBSTANCE NOTES: This subs	tance is considered prop	rietary by the supp	lier; however, the perc	entage and health hazards are disc	losed.
%: 2.0000 - 3.0000	GS: <b>BM-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Flame Retardant	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
MULTIPLE	German FEA - Sub Waters	stances Hazardous t	to Class 2 - Haz	ard to Waters	
SUBSTANCE NOTES: This subs	tance is considered prop	rietary by the supp	lier; however, the perc	entage and health hazards are disc	losed.
%: 0.5100 - 0.8500	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Stabilizer	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
None Found	No warnings found	on HPD Priority lists	5		
SUBSTANCE NOTES: This subs	tance is considered prop	rietary by the supp	lier; however, the perc	entage and health hazards are disc	losed.
%: 0.3000 - 1.3000	GS: <b>DIVI-</b> I	RC: None	NANO: NO		
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
MAMMALIAN	EU - R-phrases			l by Inhalation (gas or vapor or dust/mi	ist)
	EU - R-phrases			I if Swallowed	
ACUTE AQUATIC	EU - R-phrases			o Aquatic Organisms	
CANCER	CA EPA - Prop 65		Carcinogen	county caronnogenic to ridinidits	
CHRON AQUATIC	EU - GHS (H-State	ments)	_	to aquatic life with long lasting effects	
CANCER	EU - GHS (H-State			ected of causing cancer	
MULTIPLE	ChemSec - SIN Lis		-	nogen, Mutagen &/or Reproductive Tox	icant
CANCER	МАК			aroup 2 - Considered to be carcinogeni	
CANCER	Japan - GHS		Carcinogenic	ity - Category 1B	

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

%: <b>0.5000 - 1.0000</b>	GS: NoGS	RC: None	NANO: <b>NO</b>	ROLE: Smoke	Suppressant		
HAZARDS:	AGENCY(IES) WITH V	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings fo	No warnings found on HPD Priority lists					
SUBSTANCE NOTES: This sub	stance is considered p	roprietary by the su	oplier; however, the	percentage and	health hazards are d	isclosed.	
%: <b>0.4700 - 0.7900</b>	GS: LT-UNK	RC: Nor	NANO:	No	ROLE: Stabilizer		
HAZARDS:	AGENCY(IES) WITH V	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings fo	No warnings found on HPD Priority lists					
SUBSTANCE NOTES: This sub	stance is considered p	roprietary by the su	oplier; however, the	percentage and	health hazards are d	isclosed.	
0.0000 0.0000	17.4						
%: 0.2000 - 0.3000	GS: <b>LT-1</b>	RC: None	NANO: <b>NC</b>	) F	ROLE: Colorant		
HAZARDS:	AGENCY(IES) WITH V	AGENCY(IES) WITH WARNINGS:					
CANCER	US CDC - Occi	US CDC - Occupational Carcinogens Occupational Carcinogen					
CANCER	CA EPA - Prop	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route			
CANCER	IARC	IARC		Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources			
ENDOCRINE	TEDX - Potenti	TEDX - Potential Endocrine Disruptors			Potential Endocrine Disruptor		
CANCER	МАК		Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value				
SUBSTANCE NOTES: This sub	stance is considered p	roprietary by the su	oplier; however, the	percentage and	health hazards are d	isclosed.	
%: 0.1800 - 0.3000	GS: LT-UNK	RC: Nor	NANO:	: No	ROLE: Stabilizer		
HAZARDS:	AGENCY(IES) WITH V	VARNINGS:					
None Found	No warnings fo	No warnings found on HPD Priority lists					
SUBSTANCE NOTES: This sub	stance is considered p	roprietary by the su	oplier; however, the	percentage and	health hazards are d	isclosed.	
%: 0.1500 - 0.2500	GS: <b>LT-P1</b>	RC: None	NANO: <b>N</b>	<b>o</b> F	ROLE: Stabilizer		
HAZARDS:	AGENCY(IES) WITH V	VARNINGS:					

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

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: CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 0000- 01-01	EXPIRY DATE:	CERTIFIER OR LAB: None		
LCA	Environmental Product Declaration				
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Hoisington, KS, USA CERTIFICATE URL:	ISSUE DATE: 2014- 06-06	EXPIRY DATE: 2019-06-06	CERTIFIER OR LAB: UL Environment		

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

CERTIFICATION AND COMPLIANCE NOTES:

## 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.

## MANUFACTURER INFORMATION

MANUFACTURER: Superior Essex Address: 6120 Powers Ferry Road Suite 150 Atlanta GA 30339, USA WEBSITE: http://ce.superioressex.com/

CONTACT NAME: Steve Born TITLE: Sr. Applications Engineer, LEED AP BD+C PHONE: 770-657-6000 EMAIL: steve.born@spsx.com

**PHY** Physical Hazard (reactive)

**RES** Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

NF Not found on Priority Hazard Lists

**REP** Reproductive toxicity

LAN Land Toxicity

LT-P1 List Translator Possible Benchmark 1 LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient

information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

## KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**GLO** Global warming

**MUL** Multiple hazards

**OZO** Ozone depletion

**NEU** Neurotoxicity

MAM Mammalian/systemic/organ toxicity

**PBT** Persistent Bioaccumulative Toxic

#### **Hazard Types**

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation

#### GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (insuficient data to benchmark)

#### **Recycled Types**

PreC Preconsumer (Post-Industrial) PostC Postconsumer Both Both Preconsumer and Postconsumer Unk Inclusion of recycled content is unknown 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 product

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.