

Superior Essex 4-Pair Plenum Copper Cable: Category 6+ ScTP (F/UTP) 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 6+ ScTP (F/UTP) copper cable. Category 6+ F/UTP (ScTP) cable, with guaranteed performance out to 500 MHz, exceeds ANSI/TIA-568-C.2 for CAT 6 cables. The cable is UL Verified CAT 6 and has a typical Alien Crosstalk margin of 18 dB. The cable can be used for 10GBASE-T applications for up to 55 meters per ANSI/TIA/EIA-TSB-155. The cable consists of four (4) balanced 23 AWG copper pairs around a flame retardant cross-web. The core is wrapped with a Mylar backed aluminum foil. A drain wire is applied longitudinally against the tape. The cable is then protected with a flexible riser or plenum rated PVC jacket. Standard features include ColorTip circuit identification system and QuickCount length marking system measured in both feet and meters.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

Residuals/Impurities Considered in 5 of 6 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided? Yes No

Screened
Using Priority Hazard Lists with Results Disclosed? Yes No

Identified
Name and Identifier Provided? Yes 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

ELECTRICAL CONDUCTOR [COPPER (COPPER) **LT-UNK**] 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**] FEP WIRE INSULATION 2 [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**] CROSS WEB SEPARATOR 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**] 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**]

Number of Greenscreen BM-4/BM3 contents..... 3
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
LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

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

ELECTRICAL CONDUCTOR

#: 34.9770

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 WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PLENUM JACKET 3

#: 23.1100

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.

UNDISCLOSED

#: 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%: **15.0000 - 25.0000**GS: **BM-2**RC: **None**NANO: **No**ROLE: **Additive**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - 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 WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 1 - Agent is carcinogenic to humans - inhaled from 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%: **0.0000 - 10.0000**GS: **BM-2**RC: **None**NANO: **No**ROLE: **Additive**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PBT

OSPAR - Priority PBTs & EDs & equivalent concern

PBT - Chemical for Priority Action

ENDOCRINE

OSPAR - Priority PBTs & EDs & equivalent concern

Endocrine Disruptor - Chemical for Priority Action

PBT

EU - ESIS PBT

Fulfills PBT Criteria - Action Deferred

PBT

ChemSec - SIN List

PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

PBT

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.

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 irritation

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: **Additive**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - R-phrases

R20 - Harmful by Inhalation (gas or vapor or dust/mist)

MAMMALIAN

EU - R-phrases

R22 - Harmful if Swallowed

ACUTE AQUATIC

EU - R-phrases

R51 - Toxic to Aquatic Organisms

CANCER

IARC

Group 2b - Possibly carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

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

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 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 - 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

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-P1** RC: **None** NANO: **No** ROLE: **Additive**

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.

UNDISCLOSED

#: **0.0000 - 5.0000** GS: **LT-P1** 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 - 2.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Additive**

HAZARDS: AGENCY(IES) WITH WARNINGS:
CANCER US CDC - Occupational Carcinogens Occupational Carcinogen
CANCER CA EPA - Prop 65 Carcinogen - specific to chemical form or exposure route

| | | |
|-----------|---------------------------------------|--|
| CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CANCER | MAK | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish 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 |

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-P1** 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 - 1.0000** 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 - 1.0000** GS: **BM-3** 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 - 1.0000** 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 - 1.0000** 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 - 1.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Additive**

HAZARDS: AGENCY(IES) WITH WARNINGS:

| | | |
|--------|-----------------------------------|--|
| CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

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 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: **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: **BM-1**

RC: **None**

NANO: **No**

ROLE: **Flame Retardant**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life M = 1000000

CHRON AQUATIC

EU - GHS (H-Statements)

H410 - Very toxic to aquatic life with long lasting effects

RESTRICTED LIST

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

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

UNDISCLOSED

%: **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.

UNDISCLOSED

%: **0.0000 - 5.0000**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Functional Filler**

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.

FEP WIRE INSULATION 2

%: **21.6930**

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: **None** NANO: **No** ROLE: **Insulation**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CROSS WEB SEPARATOR 1

#: **11.7600**

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals are not considered; proprietary additives are used in the manufacturing of this material and should be fully consumed in the process.

OTHER MATERIAL NOTES: All substances excluding 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: **None** NANO: **No** ROLE: **Cross web separator**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ALUMINUM SHIELD

#: **5.5880**

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.

ALUMINUM (ALUMINUM)

ID: 7429-90-5

#: **81.0000 - 99.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Alloy Metal**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|----------------------------|---------------------------------------|---|
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (ARs) - sensitizer-induced - inhalable forms only |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H228 - Flammable solid |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H250 - Catches 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 |

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

MAGNESIUM (MAGNESIUM)

ID: 7439-95-4

#: **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 spontaneously if exposed to air |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H260 - In contact with water releases flammable gases which may ignite spontaneously |

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

| | | | | |
|---------------------------|-----------------|-----------------|-----------------|--------------------------|
| %: 1.0000 - 5.0000 | GS: LT-1 | RC: None | NANO: No | ROLE: Alloy Metal |
|---------------------------|-----------------|-----------------|-----------------|--------------------------|

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|----------------|---|---|
| CANCER | IARC | Group 1 - Agent 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 | Asthmagens (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 | MAK | Carcinogen Group 1 - Substances that cause cancer in man |
| RESPIRATORY | MAK | 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: No | ROLE: Alloy Metal |
|---------------------------|-------------------|-----------------|-----------------|--------------------------|

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|------------|---|--|
| None Found | 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 WARNINGS: | |
|-----------|---------------------------------------|-------------------------------|
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

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 WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

TIN (TIN)

ID: 7440-31-5

#: **0.0100 - 2.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Tin Coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance ranges based on supplier documentation.

 **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** ISSUE DATE: **0000-01-01** EXPIRY DATE: CERTIFIER OR LAB: **None**
 APPLICABLE FACILITIES: **All**
 CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

LCA **Environmental Product Declaration**

CERTIFYING PARTY: **Third Party** ISSUE DATE: **2014-06-06** EXPIRY DATE: **2019-06-06** CERTIFIER OR LAB: **UL Environment**
 APPLICABLE FACILITIES: **Hoisington, KS, USA**
 CERTIFICATE URL:
<http://ce.superioressex.com/about/environmental/>

CERTIFICATION AND COMPLIANCE NOTES:
 Superior Essex 4-Pair Plenum Copper Cable: Category 6+ ScTP (F/UTP)
hpdrepository.hpd-collaborative.org

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**

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**

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

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

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 (insufficient data to benchmark)

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)

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.