

CLASSIFICATION: 07 52 16

PRODUCT DESCRIPTION: SOPRAFLASH FLAM STICK is a self-adhesive base sheet membrane used in two-ply roofing assemblies on parapets and upstands. It is composed of SBS modified bitumen.

## Section 1: Summary

## Nested Method / Material Threshold

### CONTENT INVENTORY

#### Inventory Reporting Format

- Nested Materials Method  
 Basic Method

#### Threshold level

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

#### Residuals/Impurities

Residuals/Impurities Considered in 2 of 6 Materials

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

*All Substances Above the Threshold Indicated Are:*

**Characterized**  Yes Ex/SC  Yes  No  
*% weight and role provided for all substances.*

**Screened**  Yes Ex/SC  Yes  No  
*All substances screened using Priority Hazard Lists with results disclosed.*

**Identified**  Yes Ex/SC  Yes  No  
*All substances disclosed by Name (Specific or Generic) and Identifier.*

#### Threshold Disclosed Per

- Material  
 Product

### 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**

**SBS-MODIFIED BITUMEN MIXTURE [ ASPHALT (ASPHALT) LT-1 | CAN LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE) LT-UNK STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE RUBBER (SBR)) LT-UNK HYDROGEN SULFIDE (HYDROGEN SULFIDE) LT-P1 | AQU | PHY | MAM | END | MUL NICKEL (NICKEL) LT-1 | RES | CAN | SKI | MAM | MUL VANADIUM (VANADIUM) LT-1 | MUL | CAN | GEN LEAD (LEAD) LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS) LT-1 | PBT | CAN NAPHTHALENE (NAPHTHALENE) BM-1 | CAN | PBT | AQU | MUL | END ] ROOFING SELF-ADHESIVE BITUMEN MIXTURE [ ASPHALT LT-1 | CAN STYRENE BUTADIENE RUBBER (SBR) LT-UNK NAPHTHENIC OILS LT-P1 ] GLASS MAT [ SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) LT-UNK | CAN ] SILICONE-COATED RELEASE FILM [ POLYETHYLENE LT-UNK POLYDIMETHYLSILOXANES LT-P1 | PBT ] POLYPROPYLENE FILM [ POLYPROPYLENE LT-UNK ] COLORED SAND [ QUARTZ LT-1 | CAN 2-(2-BUTOXYETHOXY)ETHANOL LT-P1 | EYE | END TRIETHOXY(ETHYL)SILANE LT-UNK ]**

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

#### INVENTORY AND SCREENING NOTES:

No substance other than those listed in this HPD have been added to the finished product during its manufacturing. Residuals or impurities could not be considered because information was not provided to the manufacturer by the raw materials vendors. The precise composition of the SBS-modified bitumen mixture was not disclosed to protect proprietary information; ranges were given.

### 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: CDPH Standard Method V1.1 (Section 01350/CHPS) - Zero VOC emissions

Management: ISO 9001:2015 Quality management systems

Management: ISO 14001:2015 Environmental management systems

Management: OHSAS-18001 Occupational Health and Safety Assessment Standard

### CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

Yes

No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2019-02-28**

PUBLISHED DATE: **2019-02-28**

EXPIRY DATE: **2022-02-28**



## 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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### SBS-MODIFIED BITUMEN MIXTURE

#: 75.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals were considered through information disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: The SBS-modified bitumen is composed of different substances blended to a homogeneous mixture.

### ASPHALT (ASPHALT)

ID: 8052-42-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-28

#: 45.0000 - 55.0000

GS: LT-1

RC: None

NANO: No

ROLE: Main waterproofing compound

| HAZARD TYPE | AGENCY AND LIST TITLES            | WARNINGS   |
|-------------|-----------------------------------|--|
| CANCER      | IARC                              | Group 2B - Possibly carcinogenic to humans   |
| CANCER      | CA EPA - Prop 65                  | Carcinogen   |
| CANCER      | US CDC - Occupational Carcinogens | Occupational Carcinogen  |
| 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: Exact percentage not disclosed to protect proprietary information.

### LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE)

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-28

#: 35.0000 - 50.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Mineral stabilizer and hardener

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|----------|
|             | No hazards found       |          |

SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.

**STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE RUBBER (SBR))**

ID: 9003-55-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-28**

#: **5.0000 - 10.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Polymeric modifier for adhesion and heat resistance**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **Exact percentage not disclosed to protect proprietary information.**

**HYDROGEN SULFIDE (HYDROGEN SULFIDE)**

ID: 7783-06-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-28**

#: **Impurity/Residual**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H220 - Extremely flammable gas

MAMMALIAN

EU - GHS (H-Statements)

H330 - Fatal if inhaled

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

MAMMALIAN

US EPA - EPCRA Extremely Hazardous Substances

Extremely Hazardous Substances

SUBSTANCE NOTES: **Hydrogen sulfide may be present as an impurity in asphalt.**

**NICKEL (NICKEL)**

ID: 7440-02-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-28**

#: **Impurity/Residual**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Impurity/Residual**

| HAZARD TYPE    | AGENCY AND LIST TITLES                      | WARNINGS  |
|----------------|---|---|
| RESPIRATORY    | AOEC - Asthmagens                           | Asthmagen (Rs) - sensitizer-induced                                   |
| 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              | Known to be a human Carcinogen  |
| CANCER         | US NIH - Report on Carcinogens              | Reasonably Anticipated to be Human Carcinogen                         |
| 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: Nickel may be present as an impurity in asphalt.

## VANADIUM (VANADIUM)

ID: 7440-62-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-28**

#: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

| HAZARD TYPE   | AGENCY AND LIST TITLES                      | WARNINGS   |
|---------------|---|--|
| MULTIPLE      | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters                          |
| CANCER        | MAK   | Carcinogen Group 2 - Considered to be carcinogenic for man |
| GENE MUTATION | MAK   | Germ Cell Mutagen 2  |

SUBSTANCE NOTES: Vanadium may be present as an impurity in asphalt.

## LEAD (LEAD)

ID: 7439-92-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-28**

#: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

| HAZARD TYPE   | AGENCY AND LIST TITLES                           | WARNINGS  |
|---------------|--|---|
| DEVELOPMENTAL | G&L - Neurotoxic Chemicals                       | Developmental Neurotoxicant   |
| CANCER        | US EPA - IRIS Carcinogens                        | (1986) Group B2 - Probable human Carcinogen   |
| CANCER        | IARC   | Group 2A - Agent is probably Carcinogenic to humans   |
| CANCER        | IARC   | Group 2B - Possibly carcinogenic to humans  |
| CANCER        | CA EPA - Prop 65                                 | Carcinogen  |
| DEVELOPMENTAL | CA EPA - Prop 65                                 | Developmental toxicity  |
| PBT           | US EPA - Priority PBTs (NWMP)                    | Priority PBT  |
| PBT           | WA DoE - PBT                                     | PBT   |
| REPRODUCTIVE  | CA EPA - Prop 65                                 | Reproductive Toxicity - Female  |
| REPRODUCTIVE  | CA EPA - Prop 65                                 | Reproductive Toxicity - Male  |
| CANCER        | US NIH - Report on Carcinogens                   | Reasonably Anticipated to be Human Carcinogen   |
| PBT           | US EPA - Toxics Release Inventory PBTs           | PBT   |
| REPRODUCTIVE  | EU - SVHC Authorisation List                     | Toxic to reproduction - Candidate list  |
| PBT           | OSPAR - Priority PBTs & EDs & equivalent concern | PBT - Chemical for Priority Action  |
| PBT           | OR DEQ - Priority Persistent Pollutants          | Priority Persistent Pollutant - Tier 1  |
| DEVELOPMENTAL | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity  |
| REPRODUCTIVE  | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Reproductive Toxicity   |
| REPRODUCTIVE  | EU - GHS (H-Statements)                          | H360FD - May damage fertility. May damage the unborn child  |
| DEVELOPMENTAL | EU - GHS (H-Statements)                          | H362 - May cause harm to breast-fed children  |
| REPRODUCTIVE  | EU - REACH Annex XVII CMRs                       | Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans |
| MULTIPLE      | ChemSec - SIN List                               | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant  |
| ENDOCRINE     | TEDX - Potential Endocrine Disruptors            | Potential Endocrine Disruptor   |
| CANCER        | MAK  | Carcinogen Group 2 - Considered to be carcinogenic for man  |
| CANCER        | Korea - GHS                                      | Carcinogenicity - Category 1 [H350 - May cause cancer]  |
| REPRODUCTIVE  | Korea - GHS                                      | Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]                              |
| REPRODUCTIVE  | New Zealand - GHS                                | 6.8A - Known or presumed human reproductive or developmental toxicants  |
| REPRODUCTIVE  | Japan - GHS                                      | Toxic to reproduction - Category 1A   |
| GENE MUTATION | MAK  | Germ Cell Mutagen 3a  |
| REPRODUCTIVE  | EU - Annex VI CMRs                               | Reproductive Toxicity - Category 1A   |

SUBSTANCE NOTES: Lead may be present as an impurity in asphalt.

### POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS)

ID: 130498-29-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-28**

#: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES                           | WARNINGS   |
|-------------|--|--|
| PBT         | WA DoE - PBT                                     | PBT  |
| CANCER      | US NIH - Report on Carcinogens                   | Reasonably Anticipated to be Human Carcinogen            |
| PBT         | US EPA - Toxics Release Inventory PBTs           | PBT  |
| PBT         | OSPAR - Priority PBTs & EDs & equivalent concern | PBT - Chemical for Priority Action                       |
| CANCER      | MAK  | Carcinogen Group 1 - Substances that cause cancer in man |

SUBSTANCE NOTES: Polycyclic aromatic hydrocarbons may be present as impurity in asphalt.

### NAPHTHALENE (NAPHTHALENE)

ID: 91-20-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-02-28**

#: **Impurity/Residual** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

| HAZARD TYPE   | AGENCY AND LIST TITLES                           | WARNINGS  |
|---------------|--|---|
| CANCER        | US EPA - IRIS Carcinogens                        | (1986) Group C - Possible human Carcinogen                  |
| CANCER        | IARC   | Group 2B - Possibly carcinogenic to humans                  |
| CANCER        | CA EPA - Prop 65                                 | Carcinogen  |
| PBT           | US EPA - Priority PBTs (NWMP)                    | Priority PBT  |
| PBT           | WA DoE - PBT                                     | PBT   |
| CANCER        | US NIH - Report on Carcinogens                   | Reasonably Anticipated to be Human Carcinogen               |
| PBT           | US EPA - Toxics Release Inventory PBTs           | PBT   |
| PBT           | OSPAR - Priority PBTs & EDs & equivalent concern | PBT - Chemical for Priority Action                          |
| 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 |
| CANCER        | EU - GHS (H-Statements)                          | H351 - Suspected of causing cancer                          |
| MULTIPLE      | ChemSec - SIN List                               | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant        |
| ENDOCRINE     | ChemSec - SIN List                               | Endocrine Disruption  |
| ENDOCRINE     | TEDX - Potential Endocrine Disruptors            | Potential Endocrine Disruptor                               |
| MULTIPLE      | German FEA - Substances Hazardous to Waters      | Class 3 - Severe Hazard to Waters                           |
| CANCER        | MAK  | Carcinogen Group 1 - Substances that cause cancer in man    |
| CANCER        | MAK  | Carcinogen Group 2 - Considered to be carcinogenic for man  |

SUBSTANCE NOTES: Naphthalene may be present as an impurity in asphalt.

## ROOFING SELF-ADHESIVE BITUMEN MIXTURE

#: 18.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals were considered through information disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: The roofing self-adhesive bitumen is composed of different substances blended to a homogeneous mixture.



**ASPHALT**

ID: 8052-42-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-28**

#: **60.0000 - 70.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Main waterproofing compound**

| HAZARD TYPE | AGENCY AND LIST TITLES            | WARNINGS   |
|-------------|-----------------------------------|--|
| CANCER      | IARC                              | Group 2B - Possibly carcinogenic to humans   |
| CANCER      | CA EPA - Prop 65                  | Carcinogen   |
| CANCER      | US CDC - Occupational Carcinogens | Occupational Carcinogen  |
| 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: **Exact percentage not disclosed to protect proprietary information.**

**STYRENE BUTADIENE RUBBER (SBR)**

ID: 9003-55-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-28**

#: **15.0000 - 25.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Polymeric modifier for adhesion and heat resistance**

| HAZARD TYPE      | AGENCY AND LIST TITLES | WARNINGS |
|------------------|------------------------|----------|
| No hazards found |                        |          |

SUBSTANCE NOTES: **Exact percentage not disclosed to protect proprietary information.**

**NAPHTHENIC OILS**

ID: 67254-74-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-28**

#: **10.0000 - 20.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Plasticizer for adhesion improvement**

| HAZARD TYPE      | AGENCY AND LIST TITLES | WARNINGS |
|------------------|------------------------|----------|
| No hazards found |                        |          |

SUBSTANCE NOTES: **Exact percentage not disclosed to protect proprietary information.**

**GLASS MAT**

**%: 4.0000**

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: Polyester & glass composite reinforcing mat is responsible for the product's mechanical properties.

**SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)**

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-28

#: 100.0000

GS: LT-UNK

RC:  
None

NANO:  
No

ROLE: Surface material (top and bottom faces)

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

SUBSTANCE NOTES: Random orientation glass fibrous mat.

**SILICONE-COATED RELEASE FILM**

#: 1.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: Silicone-coated film that is removed prior to installation of the product.

**POLYETHYLENE**

ID: 9002-88-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-28**

%: **95.0000 - 99.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Base film for removable backing material**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No hazards found

SUBSTANCE NOTES: The exact nature of the polymer used in this film is a proprietary information from the raw material supplier. It was impossible to obtain disclosure of the nature of the film. Because it is named "polyolefin film" we chose to classify it as polyethylene in this HPD.

**POLYDIMETHYLSILOXANES**

ID: 63148-62-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-28**

%: **1.0000 - 5.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Release compound to allow installation of adhesive product**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

**PBT** EC - CEPA DSL Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: The exact nature of the silicone polymer used as a release agent in this film is a proprietary information from the raw material supplier. It was impossible to obtain disclosure of the nature of the silicone.

**POLYPROPYLENE FILM**

%: **0.2000**

MATERIAL THRESHOLD: **1000 ppm** RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: Polypropylene film is used as the top surfacing material.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-28**

%: **100.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Surface material - burns when membrane is installed**

| HAZARD TYPE      | AGENCY AND LIST TITLES | WARNINGS |
|------------------|------------------------|----------|
| No hazards found |                        |          |

SUBSTANCE NOTES: **BOPP film.**

**COLORED SAND**

%: **0.2000**

MATERIAL THRESHOLD: **1000 ppm** RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: **Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.**

OTHER MATERIAL NOTES: **Colored sand is used to generate lay lines on top surface of this product.**

**QUARTZ**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-02-28**

%: **98.0000 - 99.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Main component of powder used for lay lines.**

| HAZARD TYPE | AGENCY AND LIST TITLES            | WARNINGS  |
|-------------|-----------------------------------|---|
| CANCER      | IARC                              | Group 1 - Agent is Carcinogenic to humans                                     |
| 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                   | H350i - May cause cancer by inhalation  |

SUBSTANCE NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

## 2-(2-BUTOXYETHOXY)ETHANOL

ID: 112-34-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-28**

#: **0.2000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Additive for color of sand**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

## TRIETHOXY(ETHYL)SILANE

ID: 78-07-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-02-28**

#: **0.1000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Additive for color of sand**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

## 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

### CDPH Standard Method V1.1 (Section 01350/CHPS) - Zero VOC emissions

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

**02-28**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **N/A - This product is an exterior product therefore is not to be tested for VOC emissions.**

### MANAGEMENT

### ISO 9001:2015 Quality management systems

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE: **2021-**

CERTIFIER OR LAB: **SGS ICS**

APPLICABLE FACILITIES: **Facilities covered by this**

**05-28**

**05-07**

**certification: St Julien du Sault, France;**

**Strasbourg, France; Val de Reuil, France;**

**Sorgues, France; Luynes, France; Ambert,**

**France; Cestas, France; La Chapelle Saint Luc,**

**France; Saint Rambert, France; Golbey, France;**

**Drummondville, Québec, Canada; Chilliwack,**

**British Columbia, Canada; Wadsworth, Ohio,**

**USA; Richmond, Québec, Canada; Gulfport,**

**Mississippi, USA; Beauport, Québec, Canada;**

**Oberrosbach, Germany; Grobbendonk,**

**Belgium; Andenne, Belgium; Ijlst, Netherlands;**

**Chignolo d'Isola Bergamo, Italy; Frosinone,**

**Italy; San Vito al Tagliamento, Italy;**

**Verolanuova, Italy; Salgareda, Italy; Blonie,**

**Poland; Spreitenbach, Switzerland; Cham,**

**Switzerland.**

CERTIFICATE URL: <https://www.soprema.ca/wp-content/uploads/2015/05/SOPREMA-certificat-iso-9001-v2-ENG.pdf>

CERTIFICATION AND COMPLIANCE NOTES: **Certificate number FR18/81842815. Although all the plants cited above are covered by the certification, the only plants that manufacture the product covered by this HPD are the plants in Drummondville, Chilliwack, Wadsworth and Gulfport.**

### MANAGEMENT

### ISO 14001:2015 Environmental management systems

|  |                          |                           |                                  |
|--|--------------------------|---------------------------|----------------------------------|
| CERTIFYING PARTY: <b>Third Party</b>   | ISSUE DATE: <b>2018-</b> | EXPIRY DATE: <b>2021-</b> | CERTIFIER OR LAB: <b>SGS ICS</b> |
| APPLICABLE FACILITIES: <b>Facilities covered by this certification: St Julien du Sault, France; Strasbourg, France; Val de Reuil, France; Sorgues, France; La Chapelle Saint Luc, France; Saint Rambert, France; Golbey, France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Wadsworth, Ohio, USA; Richmond, Québec, Canada; Beauport, Québec, Canada; Grobbendonk, Belgium; Andenne, Belgium; Ijlst, Netherlands; Chignolo d'Isola Bergamo, Italy; Frosinone, Italy; Salgareda, Italy; San Vito al Tagliamento, Italy; Verolanuova, Italy; Blonie, Poland; Spreitenbach, Switzerland; Cham, Switzerland.</b> | <b>05-28</b>             | <b>05-07</b>              |                                  |
| CERTIFICATE URL: <a href="https://www.soprema.ca/wp-content/uploads/2015/05/SOPREMA-certificat-iso-14001-v2-ENG.pdf">https://www.soprema.ca/wp-content/uploads/2015/05/SOPREMA-certificat-iso-14001-v2-ENG.pdf</a>   |                          |                           |                                  |

CERTIFICATION AND COMPLIANCE NOTES: Certificate number FR18/81842816. Although all the plants cited above are covered by the certification, the only plants that manufacture the product covered by this HPD are the plants in Drummondville, Chilliwack, Wadsworth and Gulfport.

**MANAGEMENT** **OHSAS-18001 Occupational Health and Safety Assessment Standard**

|   |                          |                           |                                  |
|---|--------------------------|---------------------------|----------------------------------|
| CERTIFYING PARTY: <b>Third Party</b>  | ISSUE DATE: <b>2018-</b> | EXPIRY DATE: <b>2021-</b> | CERTIFIER OR LAB: <b>SGS ICS</b> |
| APPLICABLE FACILITIES: <b>Facilities covered by this certification: St Julien du Sault, France; Strasbourg, France; La Chapelle Saint Luc, France; Saint Rambert, France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Beauport, Québec, Canada; Wadsworth, Ohio, USA; Gulfport, Mississippi, USA; Andenne, Belgium; Chignolo d'Isola Bergamo, Italy; Frosinone, Italy; San Vito al Tagliamento, Italy; Verolanuova, Italy; Salgareda, Italy.</b> | <b>05-28</b>             | <b>05-07</b>              |                                  |
| CERTIFICATE URL: <a href="https://www.soprema.ca/wp-content/uploads/2015/05/SOPREMA-certificat-ohsas-18001-v2-ENG.pdf">https://www.soprema.ca/wp-content/uploads/2015/05/SOPREMA-certificat-ohsas-18001-v2-ENG.pdf</a>  |                          |                           |                                  |

CERTIFICATION AND COMPLIANCE NOTES: Certificate number FR18/81842817. Although all the plants cited above are covered by the certification, the only plants that manufacture the product covered by this HPD are the plants in Drummondville, Chilliwack, Wadsworth and Gulfport.

**+ 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.*

**PRIMER FOR SELF-ADHESIVE MEMBRANE**

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

The use of a primer is required before the installation of SOPRAFLASH FLAM STICK. Acceptable primers include ELASTOCOL STICK (500 g/L VOC content), ELASTOCOL STICK ZERO (0 g/L VOC content including 240 g/L exempt VOC as per EPA), and ELASTOCOL STICK H2O (0 g/L VOC content)

## Section 5: General Notes

Residuals could not be considered for all materials as information was not provided to the manufacturer by raw materials suppliers.



**MANUFACTURER INFORMATION**

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MANUFACTURER: **Soprema**ADDRESS: **1688 Jean-Berchmans-Michaud  
Drummondville Quebec J2C 8E9, Canada**WEBSITE: **www.soprema.ca**CONTACT NAME: **Jean-François Côté**TITLE: **Director, Standards and Scientific Affairs**PHONE: **819-478-8166 x.3290**EMAIL: **jfcote@soprema.ca****KEY**

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**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.*