

CLASSIFICATION: 07 22 16

PRODUCT DESCRIPTION: SOPRA-ISO PLUS is a polyisocyanurate thermal insulation board used in roofing assemblies, composed of a closed-cell, rigid foam core faced on both surfaces with a coated glass fiber mat facer.

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 1 of 2 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.

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](#)

[POLYISOCYANURATE FOAM \[ POLYMERIC MDI \(PMDI\) \]](#) [LT-UNK](#) | RES | MUL | CAN [POLYETHER POLYOL](#) [LT-UNK](#) [DIETHYLENE GLYCOL \(DIETHYLENE GLYCOL\)](#) [LT-P1](#) | END [PENTANE](#) [LT-P1](#) | AQU | PHY | MAM | MUL  
[POTASSIUM ACETATE](#) [LT-UNK](#) [2-ETHYLHEXANOIC ACID, POTASSIUM SALT](#) [LT-UNK](#) [BIS\[2-DIMETHYLAMINOETHYL\]\(METHYL\)AMINE](#) [LT-P1](#) | MAM | SKI | MUL [POLYSILOXANE](#) [NoGS](#) [TRIS\(1-CHLORO-2-PROPYL\)PHOSPHATE \(TCPP, TMCP\)](#) [BM-U](#) | END | PBT | MUL [WATER](#) [BM-4](#) [METHYLENE BISPHENYL DIISOCYANATE \(PURE MDI\)](#) [\(METHYLENE BISPHENYL DIISOCYANATE \(PURE MDI\)\)](#) [LT-UNK](#) | RES | MUL | SKI | EYE | CAN [DIPHENYLMETHANE-2,4'-DIISOCYANATE \(2,4'-MDI\)](#) [\(DIPHENYLMETHANE-2,4'-DIISOCYANATE \(2,4'-MDI\)\)](#) [LT-UNK](#) | MUL | SKI | EYE | RES | CAN [DIPHENYLMETHANE-2,2'-DIISOCYANATE \(2,2'-MDI\)](#) [\(DIPHENYLMETHANE-2,2'-DIISOCYANATE \(2,2'-MDI\)\)](#) [LT-UNK](#) | MUL | SKI | EYE | RES | CAN [ETHYLENE GLYCOL \(ETHYLENE GLYCOL\)](#) [BM-1](#) | DEL | END | [COATED GLASS FIBER MAT FACER](#) | [CALCIUM CARBONATE](#) [BM-3](#) [STYRENE BUTADIENE RUBBER \(SBR\)](#) [LT-UNK](#) [SOLID GLASS AND GLASS / MINERAL FIBER \(SEE VARIANTS\)](#) [LT-UNK](#) | CAN [CARBON BLACK](#) [LT-1](#) | CAN ]

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:

SOPRA-ISO PLUS is available in various thicknesses, up to 5 inches. The percentage of foam and facer will vary with thickness, which explains why ranges were given. The exact composition of the polyisocyanurate foam was not disclosed to protect proprietary information; ranges were also given. 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.

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  
Other: CAN/ULC-S107 (Drummondville)  
Other: CSA A123.21 (Drummondville)  
Other: FM 4470 (Drummondville)

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:  
VERIFICATION #:

SCREENING DATE: 2019-02-28

PUBLISHED DATE: 2019-03-28

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)

### POLYISOCYANURATE FOAM

#: 47.9000 - 83.8000

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: Percentage of foam in SOPRA-ISO PLUS varies with thickness of the product as follows: 1-inch SOPRA-ISO PLUS: 47.9% foam; 2-inch SOPRA-ISO PLUS: 63.9% foam; 4-inch SOPRA-ISO PLUS: 78.9% foam; 5-inch SOPRA-ISO PLUS: 83.8% foam. The exact percentage of substances in foam were not disclosed to protect proprietary information. Ranges were given.

### POLYMERIC MDI (PMDI)

ID: 9016-87-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-28

#: 55.0000 - 65.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Isocyanate base for polymer backbone

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

RESTRICTED LIST

US EPA - PPT Chemical Action Plans

EPA Chemical of Concern - Action Plan published

RESPIRATORY

US EPA - PPT Chemical Action Plans

Inhalation sensitizer causing asthma and lung damage

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Polymeric MDI reacts completely during production of the foam.

### POLYETHER POLYOL

ID: 9082-00-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-28

#: 25.0000 - 30.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Polyol base for polymer backbone

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Polyester polyol reacts completely during foam production.

### DIETHYLENE GLYCOL (DIETHYLENE GLYCOL)

ID: 111-46-6

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

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance is an impurity found in polyether polyol and potassium-based catalyst.

### PENTANE

ID: 109-66-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-02-28

#: 3.0000 - 10.0000

GS: LT-P1

RC: None

NANO: No

ROLE: Blowing agent

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Pentane isomer(s) used as blowing agent. Exact nature and percentages of isomers are not disclosed to protect proprietary information.

### POTASSIUM ACETATE

ID: 127-08-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Catalyst
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

SUBSTANCE NOTES: Catalyst for polymerization.

### 2-ETHYLHEXANOIC ACID, POTASSIUM SALT

ID: 3164-85-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: 0.1000 - 2.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Catalyst
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

SUBSTANCE NOTES: Catalyst for polymerization.

### BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE

ID: 3030-47-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: 0.1000 - 1.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Catalyst
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MAMMALIAN	EU - GHS (H-Statements)	H311 - Toxic in contact with skin		
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		

SUBSTANCE NOTES: Catalyst for polymerization.

### POLYSILOXANE

ID: 9011-19-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: 0.1000 - 1.0000	GS: NoGS	RC: None	NANO: No	ROLE: Surfactant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

SUBSTANCE NOTES: Foam control agent.

### TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP)

ID: 13674-84-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: 0.1000 - 5.0000	GS: BM-U	RC: None	NANO: No	ROLE: Fire retardant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment

SUBSTANCE NOTES: TCPP is used as flame retardant.

## WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: 0.1000 - 1.0000	GS: BM-4	RC: None	NANO: No	ROLE: Co-blowing agent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards found			

SUBSTANCE NOTES: Plain water

## METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) (METHYLENE BISPHENYL DIISOCYANATE (PURE MDI))

ID: 101-68-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted		
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled		
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer		
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage		
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels		
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization		

SUBSTANCE NOTES: This substance is an impurity in polymeric MDI.

## DIPHENYLMETHANE-2,4'-DIISOCYANATE (2,4'-MDI) (DIPHENYLMETHANE-2,4'-DIISOCYANATE (2,4'-MDI))

ID: 5873-54-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled		
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer		
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage		

SUBSTANCE NOTES: This substance is an impurity in polymeric MDI.

## DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI) (DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI))

ID: 2536-05-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-02-28		
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: This substance is an impurity in polymeric MDI.

#### ETHYLENE GLYCOL (ETHYLENE GLYCOL)

ID: 107-21-1

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2019-02-28</b>		
%: <b>Impurity/Residual</b>	GS: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Impurity/Residual</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity		
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		

SUBSTANCE NOTES: This substance is an impurity in potassium acetate.

#### COATED GLASS FIBER MAT FACER

#: 16.2000 - 52.1000

MATERIAL THRESHOLD: <b>1000 ppm</b>	RESIDUALS AND IMPURITIES CONSIDERED: <b>No</b>
RESIDUALS AND IMPURITIES NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.	
OTHER MATERIAL NOTES: Percentage of coated glass facer in SOPRA-ISO PLUS varies with thickness of the product as follows: 1-inch SOPRA-ISO PLUS: 52.1% facer; 2-inch SOPRA-ISO PLUS: 36.1% facer; 4-inch SOPRA-ISO PLUS: 21.1% facer; 5-inch SOPRA-ISO PLUS: 16.2% facer.	

**CALCIUM CARBONATE**

ID: 471-34-1

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

%: <b>75.0000 - 85.0000</b>	GS: <b>BM-3</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Filler material</b>
-----------------------------	-----------------	-----------------	-----------------	------------------------------

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: **N/A****STYRENE BUTADIENE RUBBER (SBR)**

ID: 9003-55-8

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

%: <b>6.0000 - 12.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Binder for glass mat</b>
----------------------------	-------------------	-----------------	-----------------	-----------------------------------

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: **Portion of polymeric binder for glass mat. Styrene butadiene and styrene acrylic combination.****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**

%: <b>5.0000 - 7.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Provide dimensional stability</b>
---------------------------	-------------------	-----------------	-----------------	--

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
<b>CANCER</b>	<b>EU - GHS (H-Statements)</b>	<b>H351 - Suspected of causing cancer</b>

SUBSTANCE NOTES: **Fibrous glass mat.****CARBON BLACK**

ID: 1333-86-4

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

%: <b>0.0000 - 0.0150</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Pigment</b>
---------------------------	-----------------	-----------------	-----------------	----------------------

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
<b>CANCER</b>	<b>US CDC - Occupational Carcinogens</b>	<b>Occupational Carcinogen</b>
<b>CANCER</b>	<b>CA EPA - Prop 65</b>	<b>Carcinogen - specific to chemical form or exposure route</b>
<b>CANCER</b>	<b>IARC</b>	<b>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</b>
<b>CANCER</b>	<b>MAK</b>	<b>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</b>

SUBSTANCE NOTES: **Additive to binder for glass mat.**

## 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: <b>Self-declared</b>	ISSUE DATE: <b>2019-03-28</b>	EXPIRY DATE:	CERTIFIER OR LAB: <b>N/A</b>
APPLICABLE FACILITIES: <b>N/A</b>			
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: <b>N/A - This product is an exterior product therefore is not to be tested for VOC emissions.</b>			

OTHER	CAN/ULC-S107 (Drummondville)		
CERTIFYING PARTY: <b>Third Party</b>	ISSUE DATE: <b>2012-01-01</b>	EXPIRY DATE:	CERTIFIER OR LAB: <b>Underwriters Laboratories of Canada</b>
APPLICABLE FACILITIES: <b>Drummondville, Québec, Canada</b>			
CERTIFICATE URL: <b>http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=TGFU.R19921&amp;ccnshorttitle=Roofing+Systems&amp;objid=1083620758&amp;cfgid=1073741824&amp;version=versionless&amp;parent_id=1073993597&amp;sequence=1</b>			
CERTIFICATION AND COMPLIANCE NOTES: <b>This product is listed in a large number of fire-rated roofing assemblies. These listings are maintained through periodic audits from ULC in the SOPREMA plants.</b>			

OTHER	CSA A123.21 (Drummondville)		
CERTIFYING PARTY: <b>Third Party</b>	ISSUE DATE: <b>2010-12-05</b>	EXPIRY DATE: <b>2018-04-30</b>	CERTIFIER OR LAB: <b>Exp</b>
APPLICABLE FACILITIES: <b>Drummondville, Québec, Canada</b>			
CERTIFICATE URL: <b>http://www.exp.com/exp.do?action=getFile&amp;fileId=2872&amp;lang=en</b>			
CERTIFICATION AND COMPLIANCE NOTES: <b>This product has been tested in a large number of roofing assemblies. One example of certification report is report PUB-DRU168540 .</b>			

OTHER	FM 4470 (Drummondville)		
CERTIFYING PARTY: <b>Third Party</b>	ISSUE DATE: <b>2012-01-01</b>	EXPIRY DATE:	CERTIFIER OR LAB: <b>FM Approvals (Factory Mutual)</b>
APPLICABLE FACILITIES: <b>Drummondville, Québec, Canada</b>			
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: <b>This product is present in a large number of roofing assemblies tested for resistance to wind uplift. FM Approvals Certificate Number 3010173. These listings are maintained through periodic audits from FM in the SOPREMA plants.</b>			

## 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.

DUOTACK	HPD URL: <b>No HPD available</b>
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: SOPRA-ISO PLUS can be installed by various methods. Installation with DUOTACK adhesive (0 g/L VOC content) is one of these methods. DUOTACK is installed in ribbons spaced as specified to obtain required wind uplift resistance. SOPRA-ISO PLUS panels are then laid in adhesive.	

FASTENER	HPD URL: <b>No HPD Available</b>
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: SOPRA-ISO PLUS can be installed by various methods. Installation with fasteners (screws and plates) is one of these methods. SOPRA-ISO PLUS boards are laid down and metal fasteners are screwed through the boards at spacing determined by the required wind uplift resistance.	

HOT ASPHALT	HPD URL: <b>No HPD Available</b>
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: SOPRA-ISO PLUS can be installed by various methods. Installation with hot asphalt is one of these methods. Asphalt is heated in a kettle to a liquid form and installed on the roof deck with a mop. SOPRA-ISO PLUS is then laid down on the asphalt. Upon cooling, asphalt solidifies and holds the boards.	

## 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**

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**

**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

<b>Hazard Types</b>		
<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

<b>GreenScreen (GS)</b>	
<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient 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.*