

CLASSIFICATION: 07 22 16

created via: HPDC Online Builder

PRODUCT DESCRIPTION: 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

CONTENT INVENTORY

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

Residuals and impurities considered in 0 of 2 materials

- see Section 2: Material Notes
- see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	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.

Number of Greenscreen BM-4/BM3 contents..... 2
 Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
 Nanomaterial..... No

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

POLYISOCYANURATE FOAM [POLYMERIC MDI (PMDI) **LT-UNK** | RES | MUL | CAN POLYETHER POLYOL **LT-UNK** PENTANE **LT-P1** | AQU | MAM | MUL | PHY 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**] 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]

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

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

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: May 24, 2017	EXPIRY DATE*: May 24, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: May 24, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

POLYISOCYANURATE FOAM

%: 47.9000 - 83.8000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

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

POLYMERIC MDI (PMDI)

ID: 9016-87-9

%: 55.0000 - 65.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Isocyanate base for polymer backbone

HAZARDS:

AGENCY(IES) WITH 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 foam production.

POLYETHER POLYOL

ID: 9082-00-2

%: 25.0000 - 30.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Polyol base for polymer backbone

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Polyester polyol reacts completely during foam production.

PENTANE

ID: 109-66-0

%: 3.0000 - 10.0000

GS: LT-P1

RC: None

NANO: NO

ROLE: Blowing agent

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
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
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

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

%: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Catalyst
--------------------	------------	----------	----------	----------------

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Catalyst for polymerization.

2-ETHYLHEXANOIC ACID, POTASSIUM SALT

ID: 3164-85-0

%: 0.1000 - 2.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Catalyst
--------------------	------------	----------	----------	----------------

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Catalyst for polymerization.

BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE

ID: 3030-47-5

%: 0.1000 - 1.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Catalyst
--------------------	-----------	----------	----------	----------------

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
-----------	----------------	----------------------------

MAMMALIAN	EU - R-phrases	R24 - Toxic in Contact with Skin
-----------	----------------	----------------------------------

SKIN IRRITATION	EU - R-phrases	R34 - Causes burns
-----------------	----------------	--------------------

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

%: 0.1000 - 1.0000 GS: NoGS RC: None NANO: NO ROLE: Surfactant

HAZARDS: **AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Foam control agent.

TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP) ID: 13674-84-5

%: 0.1000 - 5.0000 GS: BM-U RC: None NANO: NO ROLE: Fire retardant

HAZARDS: **AGENCY(IES) WITH 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 used as fire-retardant for safety of building occupants.

WATER ID: 7732-18-5

%: 0.1000 - 1.0000 GS: BM-4 RC: None NANO: NO ROLE: Co-blowing agent

HAZARDS: **AGENCY(IES) WITH WARNINGS:**

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Plain water

COATED GLASS FIBER MAT FACER

%: 16.2000 - 52.1000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

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

CALCIUM CARBONATE

ID: 471-34-1

%: 75.0000 - 85.0000	GS: BM-3	RC: None	NANO: NO	ROLE: Filler material
----------------------	----------	----------	----------	-----------------------

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: N/A

STYRENE BUTADIENE RUBBER (SBR)

ID: 9003-55-8

%: 6.0000 - 12.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Binder for glass mat
---------------------	------------	----------	----------	----------------------------

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

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

%: 5.0000 - 7.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Provide dimensional stability
--------------------	------------	----------	----------	-------------------------------------

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
--------	----------------	--

CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
--------	-------------------------	------------------------------------

SUBSTANCE NOTES: Fibrous glass mat.

CARBON BLACK

ID: 1333-86-4

%: 0.0000 - 0.0150	GS: LT-1	RC: None	NANO: NO	ROLE: Pigment
--------------------	----------	----------	----------	---------------

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
--------	-----	--

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.

OTHER

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Soprema plants: Drummondville, Québec, Canada and Chilliwack, British Columbia, Canada.

CERTIFICATE URL: <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=TGFU.R19921&ccnshorttitle=Roofing+Systems&objid=1083620758&cfgid=1073741824&versi>

CERTIFICATION AND COMPLIANCE NOTES: This product is listed in a large number of fire-rated roofing assemblies. These listings are maintained through Soprema plants.

OTHER

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Soprema plants: Drummondville, Québec, Canada and Chilliwack, British Columbia, Canada.

CERTIFICATE URL: <http://www.exp.com/exp.do?action=getFile&fileId=3126&lang=fr>

CERTIFICATION AND COMPLIANCE NOTES: This product has been tested in a large number of roofing assemblies. One example of certification report is report PUB-DRU304337.

CSA A123.21

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2014-08-18	2017-08-18	Exp

OTHER

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Soprema plants: Drummondville, Québec, Canada and Chilliwack, British Columbia, Canada.

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: 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.

FM 4470

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2012-01-01	0000-00-00	FM Approvals (Factory Mutual)

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.

Section 5: General Notes

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



MANUFACTURER INFORMATION

MANUFACTURER: Soprema

CONTACT NAME: Jean-François Côté

ADDRESS: 1688 Jean-Berchmans-Michaud
Drummondville, Quebec J2C 8E9
Canada

TITLE: Director, Standards and Scientific Affairs

PHONE: 819-478-8166 x.3290

WEBSITE: www.soprema.ca

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

Hazard Types

AQU Aquatic toxicity

GLO Global warming

PHY Physical Hazard (reactive)

CAN Cancer

MAM Mammalian/systemic/organ toxicity

REP Reproductive toxicity

DEV Developmental toxicity

MUL Multiple hazards

RES Respiratory sensitization

END Endocrine activity

NEU Neurotoxicity

SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity

OZO Ozone depletion

LAN Land Toxicity

GEN Gene mutation

PBT Persistent Bioaccumulative Toxic

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

LT-P1 List Translator Possible Benchmark 1

BM-3 Benchmark 3 (use but still opportunity for improvement) **BM-2** Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data to benchmark)

UNK 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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.