

CLASSIFICATION: 08 88 13 Fire-Resistant Glazing

PRODUCT DESCRIPTION: Fire resistive tempered multilaminate glazing with intumescent interlayers. Largest tested and approved clear view area of 7,980 sq. in. of any fire resistive glazing product up to 2 hours. Tint-free, optically clear fire resistive glazing meeting ASTM E-119, ANSI/UL 263 and CAN/ULC S101 with hose stream. Butt-glazed option available. Can be easily combined with GPX Architectural Series Framing for a complete and code compliant fire resistive assembly. Meets CPSC Cat. II impact safety, the federal maximum safety standard. Available in custom architectural, decorative and energy-saving make-ups. High STC ratings. 5 year manufacturer's warranty. USA manufactured for fast lead times and competitive pricing. Intertek/Warnock-Hersey listed and labeled.

Section 1: Summary

Nested Method / Material 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 0 of 3 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
One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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

CLEAR TEMPERED GLASS - SUPERLITE II-XL [SOLID / PLATE GLASS LT-UNK] FIRE RESISTIVE LAYER [UNDISCLOSED BM-4 UNDISCLOSED LT-1]
| CAN | DEL | REP | GEN | MAM | SKI | EYE | MUL **UNDISCLOSED NoGS UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-PI |**
RES] THERMOPLASTIC SPACER [CARBON BLACK LT-1 | CAN ZEOLITE LT-UNK UNDISCLOSED LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 1

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This product contains FLOAT GLASS which is a Special Conditions materials, but following HPDC recommendations, this report uses the CAS number for solid/plate glass until Special Conditions guidelines are published. The other materials not identified are proprietary ingredients which have been screened.

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

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-07-11

PUBLISHED DATE: 2019-07-11

EXPIRY DATE: 2022-07-11



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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

CLEAR TEMPERED GLASS - SUPERLITE II-XL

#: 60.00 - 70.00

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: This product contains FLOAT GLASS which is considered a Special Condition by the HPDC Technical Committee. for which guidelines have not yet been developed. All process chemistry for the clear tempered glass product occurs within the factory. While this product has not been specifically tested for residuals, it is expected that no residuals remain from these process chemistry reactions.

OTHER MATERIAL NOTES: The percentage range varies depending upon the size and application of the product.

SOLID / PLATE GLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

#: 100.00 - 100.00

GS: LT-UNK

RC:

NANO:

ROLE: Clear tempered float glass encapsulating the fire resistive intumescent interlayer.

None

No

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This product contains FLOAT GLASS which is a Special Conditions materials, but following HPDC recommendations, this report uses the CAS number for solid/plate glass until Special Conditions guidelines are published.

Float glass used in this product contains approximately 20% recycled glass in the form of cullet. The float glass manufacturing process recycles virtually all the glass waste from the in-plant production melting and cutting processes. This broken glass, known as cullet, is reintroduced with the raw materials batch mix in the furnace as an aid to melting. It takes approximately half the amount of energy to produce glass from cullet as it does to produce glass from raw materials.

FIRE RESISTIVE LAYER

#: 20.00 - 35.00

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have not been specifically tested for. However the proprietary fire resistive intumescent interlayer composed of several components that when combined in the final product is sealed and does not pose any hazard to building occupants. This proprietary fire resistive intumescent interlayer has also been tested in its combined state and did not exhibit hazardous waste characteristics for ignitability, corrosivity, reactivity or toxicity.

OTHER MATERIAL NOTES: The range of percentages varies with the size and application of the product.

UNDISCLOSED

%: **70.00 - 80.00**GS: **BM-4**RC:
NoneNANO:
NoROLE: **Fire resistive intumescent interlayer - component 1**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED%: **8.00 - 12.00**GS: **LT-1**RC:
NoneNANO:
NoROLE: **Proprietary fire resistive intumescent interlayer - component 2**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

US EPA - IRIS Carcinogens

(2005) Likely to be Carcinogenic to humans

CANCER

IARC

Group 2a - Agent is probably Carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

DEVELOPMENTAL

CA EPA - Prop 65

Developmental toxicity

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

US NIH - Report on Carcinogens

Reasonably Anticipated to be Human Carcinogen

CANCER

EU - SVHC Authorisation List

Carcinogenic - Candidate list

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

GENE MUTATION

EU - SVHC Authorisation List

Mutagenic - Candidate list

MAMMALIAN

EU - GHS (H-Statements)

H301 - Toxic if swallowed

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

GENE MUTATION

EU - GHS (H-Statements)

H340 - May cause genetic defects

CANCER

EU - GHS (H-Statements)

H350 - May cause cancer

REPRODUCTIVE

EU - GHS (H-Statements)

H361f - Suspected of damaging fertility

ORGAN TOXICANT

EU - GHS (H-Statements)

H372 - Causes damage to organs through prolonged or repeated exposure

CANCER

EU - REACH Annex XVII CMRs

Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man

GENE MUTATION

EU - REACH Annex XVII CMRs

Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man

MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	MAK	Germ Cell Mutagen 2
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
GENE MUTATION	Korea - GHS	Germ cell mutagenicity - Category 1 [H340 - May cause genetic defects]
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1B
GENE MUTATION	Japan - GHS	Germ cell mutagenicity - Category 1B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B
GENE MUTATION	Malaysia - GHS	H340 - May cause genetic defects
CANCER	Malaysia - GHS	H350 - May cause cancer
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-07-11**

#: **3.00 - 6.00**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Fire resistive intumescent interlayer - component 3**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

#: **3.00 - 6.00** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Fire resistive intumescent interlayer - component 4**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

#: **2.00 - 5.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Fire resistive intumescent interlayer - component 5**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

#: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Fire resistive intumescent interlayer - component 6**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

#: **0.00 - 1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Fire resistive intumescent interlayer - component 7**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Fire resistive intumescent interlayer - component 8
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: 0.00 - 1.00	GS: LT-P1	RC: None	NANO: No	ROLE: Fire resistive intumescent interlayer - component 9
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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RESPIRATORY	AOEC - Asthmagens	Asthmagens (G) - generally accepted
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SUBSTANCE NOTES: This substance is part of the fire resistive layer. Its name is not disclosed because it is part of a proprietary system. It has been fully screened.

THERMOPLASTIC SPACER

%: 5.00 - 10.00

MATERIAL THRESHOLD: **Per OSHA MSDS**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: Information on substances limited by information provided by supplier. The thermoplastic spacer is used to create the cavity for the fire resistive interlayer. The final product is sealed and does not pose any hazard to building occupants.

OTHER MATERIAL NOTES: The percentage range varies based on the size and application of the product.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **20.00 - 30.00** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Thermoplastic spacer component 1 - SEE MATERIAL NOTES.**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
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

SUBSTANCE NOTES: The percentage range for this substance is based on information provided by the supplier SDS.

ZEOLITE

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **10.00 - 20.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Thermoplastic spacer component 2 - SEE MATERIAL NOTES.**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The percentage range for this substance is based on information provided by the supplier SDS.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-11**

%: **0.00 - 70.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Thermoplastic spacer component 3 - SEE MATERIAL NOTES.**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Specific proportions of this proprietary substance are not available from the supplier.

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: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **self**

APPLICABLE FACILITIES: **All. This product has not been certified because it is an Inherently non-emitting source per LEED®.**

05-17

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **This product has not been certified because it is an Inherently non-emitting source per LEED®**

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.

GPX FRAMING - UNFINISHED

HPD URL: https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_163_GPX_Framing_unfinished.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

SuperLite II-XLB glazing is typically used in conjunction with GPX Framing, though other framing systems can be used.

Section 5: General Notes

SuperLite II-XLB is listed and labeled by Intertek/Warnock-Hersey Inc.



MANUFACTURER INFORMATION

MANUFACTURER: **SAFTI FIRST**

ADDRESS: **100 N Hill Drive**

Suite 12

Brisbane CA 94005, United States

WEBSITE: <http://safti.com/product/superlite-ii-xlb/>

CONTACT NAME: **Diana San Diego**

TITLE: **VP of Marketing**

PHONE: **888-653-3333**

EMAIL: **DianaS@safti.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.