

CLASSIFICATION: 08 88 13 FIRE-RESISTANT GLAZING

PRODUCT DESCRIPTION: 45 TO 120 MINUTE FIRE RESISTANT GLAZING (AS TESTED ACCORDING TO ASTM E119 / NFPA 251 / UL 263); MAXIMUM FIRE AND IMPACT SAFETY WITH HOSE STREAM AND FULL RADIANT HEAT PROTECTION; FULLY TESTED, APPROVED AND LISTED FOR TEMPERATURE RISE DOORS, OPENINGS AND WALL APPLICATIONS; TINT-FREE AND OPTICALLY CLEAR; ACOUSTICAL VALUE OF 40-44 STC; AVAILABLE IN ANY CUSTOM ARCHITECTURAL MAKE-UP, SUCH AS LAMINATED GLASS AND ENERGY-SAVING INSULATED UNITS WITH NFRC CERTIFICATIONS WHEN USED WITH GPX FRAMING; CAN BE CUSTOMIZED TO INCLUDE NOISE ABATEMENT BENEFITS, BULLET RESISTANCE, HURRICANE RESISTANCE, AND UNLIMITED DECORATIVE FINISH OPTIONS; AVAILABLE WITH STARFIRE® ULTRA-CLEAR GLASS BY PPG; 5 YEAR WARRANTY; USA MANUFACTURED FOR FAST LEAD TIMES AND COMPETITIVE PRICING.

Section 1: Summary

CONTENT INVENTORY

<p>Threshold per material</p> <ul style="list-style-type: none"> <input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input checked="" type="radio"/> Per OSHA MSDS <input type="radio"/> Other 	<p>Residuals and impurities considered in 0 of 3 materials</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> see Section 2: Material Notes <input checked="" type="radio"/> see Section 5: General Notes 	<p>Based on the selected Content Inventory Threshold:</p> <p>Characterized..... <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Are the Percent Weight and Role provided for all substances?</p> <p>Screened..... <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>Are all substances screened using Priority Hazard Lists with results disclosed?</p> <p>Identified..... <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>Are all substances disclosed by Name (Specific or Generic) and Identifier?</p>
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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..... 1
 Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
 Nanomaterial..... No

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

CLEAR TEMPERED GLASS - SUPERLITE II-XL [FLOAT GLASS UNK]
 FIRE RESISTIVE LAYER [UNDISCLOSED BM-4 UNDISCLOSED LT-1 |
 MAM | EYE | SKI | CAN | GEN | REP | DEV | MUL UNDISCLOSED UNK
 UNDISCLOSED UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK
 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-
 UNK | RES] THERMOPLASTIC SPACER [CARBON BLACK LT-1 | CAN
 ZEOLITE LT-UNK UNDISCLOSED LT-UNK]

INVENTORY AND SCREENING NOTES:

Clear float glass has been identified as a Special Condition by the HPD Collaborative. All process chemistry for this 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.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: October 31, 2016	EXPIRY DATE*: October 31, 2019
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: October 31, 2016	* 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.

CLEAR TEMPERED GLASS - SUPERLITE II-XL %: 60.0000 - 70.0000 HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

FLOAT GLASS

ID:

%: 100.0000 - 100.0000

GS: UNK

RC: None

NANO: NO

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

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Float glass has been identified by the HPDC Technical Committee as a Special Condition. Contains approximately 20% recycled content 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

%: 20.0000 - 35.0000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes: PROPRIETARY FIRE RESISTIVE INTUMESCENT INTERLAYER COMPOSED OF SEVERAL COMPONENTS (LISTED BELOW) 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.

UNDISCLOSED

%: 70.0000 - 80.0000

GS: BM-4

RC: None

NANO: NO

ROLE: Fire resistive intumescent interlayer - component 1

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases	R24 - Toxic in Contact with Skin
MAMMALIAN	EU - R-phrases	R25 - Toxic if Swallowed
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
CANCER	EU - R-phrases	R45 - May cause cancer
GENE MUTATION	EU - R-phrases	R46 - May cause heritable genetic damage
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
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
REPRODUCTIVE	CA EPA - Prop 65	Developmental Toxicity - Male
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
SKIN IRRITATION	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
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

SUBSTANCE NOTES: SEE MATERIAL NOTES ABOVE

UNDISCLOSED

%: 3.0000 - 6.0000	GS: UNK	RC: None	NANO: NO	ROLE: Fire resistive intumescent interlayer - component 3
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HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

%: 3.0000 - 6.0000

GS: UNK

RC: None

NANO: NO

ROLE: Fire resistive
intumescent interlayer -
component 4

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

%: 2.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Fire resistive
intumescent interlayer -
component 5

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Fire resistive
intumescent interlayer -
component 6

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Fire resistive
intumescent interlayer -
component 7

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Fire resistive
intumescent interlayer -
component 8

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Fire resistive
intumescent interlayer -
component 9

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

SUBSTANCE NOTES:

THERMOPLASTIC SPACER

%: 5.0000 - 10.0000

HPD URL:

Inventory Threshold: Per OSHA MSDS

Residuals Considered: No

Material 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.

CARBON BLACK

ID: 1333-86-4

%: 20.0000 - 30.0000

GS: LT-1

RC: None

NANO: NO

ROLE: Thermoplastic
spacer component 1 -
SEE MATERIAL NOTES.

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen (form-specific or based on limited exposure pathways)

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:

ZEOLITE

ID: 1318-02-1

%: 10.0000 - 20.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Thermoplastic spacer component 2 - SEE MATERIAL NOTES.

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED

%: 0.0000 - 70.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Thermoplastic spacer component 3 - SEE MATERIAL NOTES.

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority 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.



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: No HPD link provided

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: SuperLite II-XL glazing is typically used in conjunction with GPX Framing, though other framing systems can be used.



Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: SAFTI FIRST

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Brisbane, CA 94005
United States

CONTACT NAME: Diana San Diego

TITLE: VP of Marketing

PHONE: 888-653-3333

WEBSITE: <http://safti.com/product/superlite-ii-xl-45/>
<http://safti.com/product/superlite-ii-xl-60/>
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<http://safti.com/product/superlite-ii-xl-120/>

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)

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.