

Pilkington Pyrostop® and Pilkington Pyrodur® monolithic fire-rated glass (no PVB) by NSG Group

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 08 88 13 Fire resistant glazing

PRODUCT DESCRIPTION: Fire-rated architectural glazing, made from sheets of soda-lime-silica flat glass and layers of fire-resistant material. The glazing does not contain a PVB layer. (Note that the CAS number for the glass component includes all types of glass. This product only contains soda-lime-silica flat glass.)

Section 1: Summary

Basic Method / Product 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

- Considered
 Partially Considered
 Not Considered

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

One or more substances not screened using Priority Hazard Lists with results disclosed and/ or one or more Special Condition did not follow guidance.

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.

Threshold Disclosed Per

- Material
 Product

Explanation(s) provided for Residuals/Impurities?
 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.

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

PILKINGTON PYROSTOP® AND PILKINGTON PYRODUR® MONOLITHIC FIRE-RATED GLASS (NO PVB) [**SOLID / PLATE GLASS** **LT-UNK** **SODIUM SILICATE** **LT-P1** | **END GLYCERIN** **LT-UNK** **EDGE TAPE** **Not Screened**]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

All components

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: Inherently non-emitting source

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2019-10-03
PUBLISHED DATE: 2020-03-12
EXPIRY DATE: 2022-10-03



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

PILKINGTON PYROSTOP® AND PILKINGTON PYRODUR® MONOLITHIC FIRE-RATED GLASS (NO PVB)

PRODUCT THRESHOLD: Per GHS SDS

RESIDUALS AND IMPURITIES
CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: All substances present in the product have been considered.

OTHER PRODUCT NOTES: This HPD applies to Pilkington Pyrostop® and Pilkington Pyrodur® monolithic fire-rated glass without a break-resistant PVB layer.

SOLID / PLATE GLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-03

%: 69.20 - 83.60

GS: LT-UNK

RC: Both

NANO: No

ROLE: The bulk glass

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The relative amount of the substance in the product depends on the size of the unit. A typical range is indicated.

The product contains glass recycled in the manufacturing facility, and may contain pre- and post-consumer recycled glass.

The bulk glass is 100 % soda-lime-silicate flat glass which is included in CAS number 65997-17-3 covering a variety of glasses. Flat glass does not contain any fibre glass or crystalline silica and therefore does not have any of the potential health risks associated with them.

SODIUM SILICATE

ID: 1344-09-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-03

%: 14.30 - 27.10

GS: LT-P1

RC: None

NANO: No

ROLE: Component of fire resistant layers

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: The relative amount of the substance in the product depends on the size of the unit. A typical range is indicated.

GLYCERIN

ID: 56-81-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-10-03

%: **1.90 - 4.60**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Component of the fire resistant layers**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **The relative amount of the substance in the product depends on the size of the unit. A typical range is indicated.**

EDGE TAPE

ID: **Not Registered**

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

HAZARD SCREENING DATE: **2019-10-03**

%: **0.07 - 0.17**

GS: **Not Screened**

RC:
None

NANO:
No

ROLE: **Edge seal tape to protect the fire resistant layer from humidity**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: **Tape made from aluminium foil laminated with polyester film and acrylic adhesive.**

The relative amount of the substance in the product depends on the size of the unit. A typical range is indicated.

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

Inherently non-emitting source

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-10-03**

EXPIRY DATE: **2021-10-03**

CERTIFIER OR LAB: **Self-certified**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **In LEED, products that are inherently non-emitting sources of VOCs (such as stone, metal and glass) are considered fully compliant without any VOC emissions testing if they do not contain any integral organic-based coatings, binders or sealants.**

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.

No accessories are required for this product.

Section 5: General Notes

This HPD is for fire-rated glazing made from sheets of soda-lime-silica glass.



MANUFACTURER INFORMATION

MANUFACTURER: **NSG Group**
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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)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U 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.