

CLASSIFICATION: 08 81 00

created via: HPDC Online Builder

PRODUCT DESCRIPTION: This HPD covers Walker's Acid-etched Glass in multiple colors, dimensions and thickness. Acid-etched Glass is suitable for interior and exterior applications, such as interior partitions, office enclosures, shower and bath enclosures, interior and exterior doors, balustrades and railings, closet doors, display fixtures, flooring and stairs, spandrel, sealed units, backsplashes, furniture and kitchen components, shelving, and wall decoration. [Other applicable CSI Masterformat identifiers: 08 41 00 – Entrances and Storefronts / 08 42 00 – Entrances / 08 43 00 – Storefronts / 08 44 00 – Glazed Curtainwalls / 08 50 00 – Windows / 08 60 00 – Roof, Windows and Skylights / 08 81 13 – Decorative Glass Glazing / 10 22 00 – Partitions / 10 28 19.16 – Shower Doors / 08 44 30 Slip Resistant Acid Etched Glazing.]

Section 1: Summary **Basic Method / Product 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

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided? Yes No

Screened
Using Priority Hazard Lists with Results Disclosed? Yes No

Identified
Name and Identifier Provided? 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

ACID-ETCHED GLASS [SILICA, AMORPHOUS (SILICON DIOXIDE) **LT-P1** | CAN SODIUM OXIDE (SODIUM OXIDE) **LT-UNK** CALCIUM OXIDE (CALCIUM OXIDE) **LT-P1** MAGNESIUM OXIDE (MAGNESIUM OXIDE) **LT-UNK** ALUMINUM OXIDE (ALUMINUM OXIDE) **LT-P1** | RES SODIUM SULFATE (SALT CAKE) **LT-UNK** FERRIC OXIDE (DIIRON TRIOXIDE) **BM-2** | CAN CARBON (COAL) **LT-UNK** COBALT COMPOUNDS (COBALT COMPOUNDS) **LT-1** | RES | CAN | GEN NICKEL COMPOUNDS (NICKEL COMPOUNDS) **LT-1** | CAN | RES]

Number of Greenscreen BM-4/BM3 contents..... 0
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

This HPD has been prepared using the Basic Content Inventory. Float glass is a material with Special Conditions as per the HPDC and guidelines for reporting Special Conditions materials are still under development by HPDC. Walker Glass will update the HPD accordingly once these guidelines get published. Substances present in Walker's Acid-etched Glass, as well as known residuals and impurities, have been disclosed at 100 ppm. More details about how residuals and impurities were considered available in the appropriate section.

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 per LEED® - Glass

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-08-10

PUBLISHED DATE: 2017-09-13

EXPIRY DATE: 2020-08-10

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

ACID-ETCHED GLASS

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: Walker confirms that there are no residuals or impurities remaining on the acid-etched glass surface following the etching process. Walker has three different suppliers of soda-lime glass and therefore there are several level of disclosure of residuals and impurities. Supplier #1 statement: Impurities coming from this supplier were not included in the HPD since they are potentially present in the glass at level undetected or in the parts per billion rang. Those contaminants include chromium (Cr), cadmium (Cd) and/or lead (Pb) derived from mined raw materials such as silica or limestone at significantly less than the threshold limits for RoHS. These metals are the only RoHS hazardous substances that have the potential to be in the glass. Supplier #2 statement: All glasses sold by this supplier are regularly analyzed with an elemental detection limit of 10 ppm or lower. Pb, Cr, As, Sb, V and Cd may rarely be present in float glass as trace level contaminants and are never present at greater than 20 ppm. Therefore they were not included in the HPD. Co, Se and Ni may be added to impart colour to some tinted glasses. Co is never present at greater than 300 ppm, Se is never present at more than 50 ppm (not disclosed), Ni is typically not present at greater than 200 ppm but may be 800 ppm in some specific dark grey products. - No statement regarding impurities for Supplier #3.

OTHER PRODUCT NOTES: The main material used for acid-etched glass is soda-lime glass. The composition disclosed below corresponds to an average and generic composition for soda-lime glass. Walker's Acid-etched Glass is available in several colors: Clear, Bronze, Grey, Blue, Black, Low-iron / Starphire, Green, etc. Not all suppliers provide tinted glass. The following statements represent the information received from tinted glass suppliers. Supplier #2 statement: Co, Se and Ni may be added to impart colour to some tinted glasses. Co is never present at greater than 300 ppm, Se is never present at more than 50 ppm (not disclosed), Ni is typically not present at greater than 200 ppm but may be 800 ppm in some specific dark grey product. Supplier #3 statement: Tinted glasses are very similar in composition to clear glass with adjustments to trace elements for coloring purposes and sometimes accompanied by minor changes to the other components where necessary for proper melting.

SILICA, AMORPHOUS (SILICON DIOXIDE)

ID: 7631-86-9

#: 69.0000 - 74.0000 GS: LT-P1 RC: None NANO: No ROLE: Network former

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER Japan - GHS Carcinogenicity - Category 1A

SUBSTANCE NOTES: Main ingredient. See Material Notes.

SODIUM OXIDE (SODIUM OXIDE)

ID: 1313-59-3

#: 12.0000 - 16.0000 GS: LT-UNK RC: None NANO: No ROLE: Fluxing agent

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

CALCIUM OXIDE (CALCIUM OXIDE)

ID: 1305-78-8

#: **5.0000 - 12.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Network modifier**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

MAGNESIUM OXIDE (MAGNESIUM OXIDE)

ID: 1309-48-4

#: **0.0000 - 6.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Network modifier**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

ALUMINUM OXIDE (ALUMINUM OXIDE)

ID: 1344-28-1

#: **0.0000 - 3.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Durability/viscosity/workability enhancer**

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: See Material Notes.

SODIUM SULFATE (SALT CAKE)

ID: 7757-82-6

#: **0.0000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Fining agent**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Trace element for supplier #1. Present in some glasses.

FERRIC OXIDE (DIIRON TRIOXIDE)

ID: 1309-37-1

#: **0.0000 - 1.0000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Coloring agent**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not

SUBSTANCE NOTES: Trace element for supplier #1. Present in some glasses.

CARBON (COAL)

ID: **7440-44-0**

#: **0.0000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Reducing agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Trace element for supplier #1. Present in some glasses.

COBALT COMPOUNDS (COBALT COMPOUNDS)

ID: **Not registered**

#: **0.0000 - 0.0300** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Coloring agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

CANCER

MAK

Carcinogen Group 2 - Considered to be carcinogenic for man

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

GENE MUTATION

MAK

Germ Cell Mutagen 3a

SUBSTANCE NOTES: Present in some tinted glasses for supplier #2.

NICKEL COMPOUNDS (NICKEL COMPOUNDS)

ID: **Not registered**

#: **0.0000 - 0.0800** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Coloring agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Up to 800 ppm in dark grey glasses for supplier #2.

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 per LEED® - Glass

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2017-08-

EXPIRY DATE:

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: N/A

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CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Inherently nonemitting sources: Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood flooring) are considered fully compliant without any VOC emissions testing if they do not include integral organicbased surface 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

Residuals and impurities were partially considered since not all suppliers had the same amount of disclosure in their documentation. Information about residuals and impurities came from documents provided by Walker's suppliers. Additional details are provided in Residuals / Impurities Notes.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Walker Glass Company Ltd.**

ADDRESS: **9551 Ray Lawson Blvd
Montreal QC H1J 1L5, Canada**

WEBSITE: **www.walkerglass.com**

CONTACT NAME: **Vince Grippo**

TITLE: **Research and Development Director**

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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.