

HPD UNIQUE IDENTIFIER: 23380

CLASSIFICATION: 08 81 00 Glass Glazing

PRODUCT DESCRIPTION: This HPD covers Walker's AviProtek® series of bird friendly glass (AviProtek®, AviProtek® E, AviProtek® T) available in various glass substrates, dimensions, and thicknesses. AviProtek® products have been developed to reduce the number of bird strikes against buildings where glazing is present. This type of glass is used in exterior applications only, for commercial or residential applications. In detail, AviProtek® is a bird friendly glass solution with acid-etched designs on the 1st surface of the glass. The AviProtek® E bird friendly glass solution combines acid-etched visual markers on the 1st surface with high performance low-e coating on the 2nd surface. AviProtek® T uses UV markers to deter birds. These markers are etched on the pyrolytic coating on the 1st surface of the glass.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input type="radio"/> Nested Materials Method</p> <p><input checked="" type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold level</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p><input checked="" type="radio"/> Considered</p> <p><input type="radio"/> Partially Considered</p> <p><input type="radio"/> Not Considered</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances screened using Priority Hazard Lists with results disclosed.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances disclosed by Name (Specific or Generic) and Identifier.</i></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.

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

AVIPROTEK® BIRD FRIENDLY GLASS [SODA LIME BOROSILICATE GLASS LT-UNK]

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

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

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 AviProtek® bird friendly 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 LCA: Environmental Product Declaration (EPD)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1 and Option 2

Third Party Verified?

- Yes
- No

PREPARER: Vertima

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2021-01-11

PUBLISHED DATE: 2021-01-11

EXPIRY DATE: 2024-01-11

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

AVIPROTEK® BIRD FRIENDLY GLASS

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Walker confirms that there are no residuals or impurities remaining on the acid-etched glass surface following the patterned etching process. Walker has multiple suppliers of uncoated and coated soda-lime glass and all declare their product to be 100% soda-lime glass and that coating substances are below the declaration threshold.

OTHER PRODUCT NOTES: The main material used for AviProtek® bird friendly glass is uncoated or coated soda-lime glass. Coatings are either amorphous or polycrystalline and may contain the following elements: silicone, silver, tin, zinc, nickel, chromium, aluminum, titanium, antimony and/or iron. However, none of the coatings are present at or above the 100 ppm declaration threshold.

SODA LIME BOROSILICATE GLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-01-11

#: 100.0000 GS: LT-UNK RC: PreC NANO: No SUBSTANCE ROLE: Glass component

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

SUBSTANCE NOTES: Soda Lime Float Glass (CAS number 65997-17-3) is made by melting various substances such as silicon dioxide, sodium oxide, calcium oxide, magnesium oxide and trace elements together. Tinted glasses are similar to clear glass; however, the composition varies slightly. In all cases, clear, tinted or low-iron glass, the product as delivered is 100% Soda Lime Float Glass.

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: 2020-11-	EXPIRY DATE:	CERTIFIER OR LAB: N/A
APPLICABLE FACILITIES: N/A	16		
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: Inherently non-emitting sources: Products that are inherently non-emitting 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 organic based surface coatings, binders, or sealants.			
LCA	Environmental Product Declaration (EPD)		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2019-08-	EXPIRY DATE: 2024-	CERTIFIER OR LAB: CSA Group
APPLICABLE FACILITIES: Montreal, Quebec.	30	08-29	
CERTIFICATE URL:			
https://www.csaregistries.ca/epd/epd_label_e.cfm?No=926			
CERTIFICATION AND COMPLIANCE NOTES: This EPD covers Walker Textures® Patterned Acid-etched Glass (Walker Textures® Nuance and Walker Textures® Traction) and the AviProtek® series of Bird Friendly Glass (AviProtek®, AviProtek® E and AviProtek® T). The EPD is registered with CSA under registration number 2845-5740.			

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

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.

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
PHONE: 514 352 3030
EMAIL: vince@walkerglass.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.