

HPD UNIQUE IDENTIFIER: 23403

CLASSIFICATION: 07 27 00 Air Barriers

PRODUCT DESCRIPTION: DELTA®-VENT S is a heavy duty, 3-layer highly permeable water-resistive barrier and air barrier suitable for all wall applications. Its two outer layers are made of a high strength spun-bonded polypropylene fabric. They are thermally bonded to a highly vapor permeable, watertight polymeric middle layer. A fabric layer on the lower side protects the WRB against damage (e.g. roughly sawed sheathing). The black of DELTA®-VENT S prevents blinding glare during installation. DELTA®-VENT S maximizes air tightness, making it ideal for energy-efficient construction. Completely waterproof, DELTA®-VENT S provides reliable protection against wind driven rain and snow. Moisture accumulation within the building is not a problem due to the product's high permeability. Moisture that might otherwise accumulate within the wall system is able to escape via diffusion. DELTA®-VENT S is lightweight, making the installation quick and easy. The large roll size simplifies installation, while minimizing laps and maximizing productivity.

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 type="radio"/> 100 ppm</p> <p><input checked="" 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>
--	--	--	---

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

DELTA VENT S [POLYPROPYLENE LT-UNK HOSTAVIN N 30 NoGS

CHIMASSORB 2020 NoGS 3,5-BIS(1,1-DIMETHYLETHYL)-4-

HYDROXYBENZENEPROPANOIC ACID OCTADECYL ESTER LT-P1

ANOX 20 LT-UNK TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE LT-

UNK | PBT 1,3-PROPANEDIAMINE, N,N''-1,2-ETHANEDIYLBIS-,

REACTION PRODUCTS WITH CYCLOHEXANE AND PEROXIDIZED N-

BUTYL-2,2,6,6-TETRAMETHYL-4-PIPERIDINAMINE-2,4,6-

TRICHLORO-1,3,5-TRIAZINE REACTION PRODUCTS BM-1 | PBT

CALCIUM CARBONATE BM-3 CARBON BLACK LT-1 | CAN]

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

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD was created with Basic Inventory.

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: No Certifications

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: 2019-01-02

PUBLISHED DATE: 2021-01-13

EXPIRY DATE: 2022-01-02

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

DELTA VENT S

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered based on process chemistry via Pharos Chemical and Material Library (CML) 1,2,4-trimethylpiperazine | 2,2,6,6-tetramethylpiperidine | MAGNESIUM CHLORIDE | METHANOL | COPPER | PROPYLENE | Titanium (III) chloride - Associated with POLYPROPYLENE; HYDROCARBONS, C EQUAL OR GREATER THAN 20, PETROLEUM WASTES - Associated with DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI); AMMONIA | IRON - Associated with 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYBENZENEPROPANOIC ACID OCTADECYL ESTER POLYCYCLIC AROMATIC HYDROCARBONS - Associated with CARBON BLACK

OTHER PRODUCT NOTES:

POLYPROPYLENE

ID: 9003-07-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-02

#: 75.0000 - 95.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Textile component

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

SUBSTANCE NOTES: N/A

HOSTAVIN N 30

ID: 202483-55-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-02

#: 0.0100 - 3.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Heat or UV stabilizer

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

SUBSTANCE NOTES: N/A

CHIMASSORB 2020

ID: 192268-64-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-02

#: 0.0100 - 3.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Heat or UV stabilizer

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

SUBSTANCE NOTES: N/A

3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYBENZENEPROPANOIC ACID OCTADECYL ESTER

ID: 2082-79-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-02		
%: 0.0100 - 3.0000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Antioxidant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: N/A				

ANOX 20

ID: 6683-19-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-02		
%: 0.0100 - 3.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Antioxidant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: N/A				

TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE

ID: 31570-04-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-02		
%: 0.0100 - 3.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Antioxidant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
PBT	EU - ESIS PBT	Under PBT evaluation		
SUBSTANCE NOTES: N/A				

1,3-PROPANEDIAMINE, N,N''-1,2-ETHANEDIYLBIS-, REACTION PRODUCTS WITH CYCLOHEXANE AND PEROXIDIZED N-BUTYL-2,2,6,6-TETRAMETHYL-4-PIPERIDINAMINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE REACTION PRODUCTS

ID: 191680-81-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-02		
%: 0.0100 - 3.0000	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport		
SUBSTANCE NOTES: N/A				

CALCIUM CARBONATE

ID: 471-34-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-02		
%: 0.0000 - 20.0000	GS: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: N/A		

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-02		
#: 0.0000 - 5.0000	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route		
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources		
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		
SUBSTANCE NOTES: N/A				

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

No Certifications

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2018-12- EXPIRY DATE:

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: N/A

20

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: No VOC Certification or Compliance required

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.

DELTA®-MULTI BAND

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DELTA®-MULTI BAND pure acrylic adhesive tape used at overlaps of DELTA® Air & Water-resistive Barriers.

DELTA®-THAN

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DELTA®-THAN is a permanently elastic, special rubber compound sealant and adhesive.

DELTA®-FAS CORNER

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DELTA®-FAS CORNER pre-formed to make corners in window and door openings air and water tight.

DELTA®-FLASHING

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DELTA®-FLASHING used to seal openings for windows and doors to complete the DELTA® Air & and Water-resistive Barrier System.

DELTA®-FLEXX-BAND

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DELTA®-FLEXX-BAND stretchable butyl rubber tape used at penetrations.

DELTA®-TILAXX

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DELTA®-TILAXX used to seal overlaps (end laps and side laps) of DELTA® Air and Water-resistive barriers.

DELTA®-TW FLASHING

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

DELTA®-TW FLASHING premium, durable, self-adhering flashing used to seal the interface between common building substrates, including lintels and brick ledges, and to all DELTA® air- and water-resistive barrier membranes at vulnerable detail areas.

Section 5: General Notes

DELTA-VENT S

hpdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 6 of 8

MANUFACTURER INFORMATION

MANUFACTURER: Dörken Systems Inc.
ADDRESS: 4655 Delta Way
 Beamsville Ontario L0R 1B4, Canada
WEBSITE: www.dorcken.com

CONTACT NAME: Krzysztof Apriasz
TITLE: Technical Service Manager
PHONE: 1-888-4DETLA4 (433-5824) x 326
EMAIL: kapriasz@dorcken.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)	
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)	NoGS No GreenScreen.

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.