Diamon-Fusion® Step 1 Hand Applied Product by Diamon-Fusion International

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 96 00 Finishes: High-Performance Coatings

PRODUCT DESCRIPTION: Diamon-Fusion is an optically clear, low-maintenance protective coating that transforms ordinary glass or other silica-based surfaces into a high-performing, water repellent surface. By filling in the microscopic peaks and valleys of the substrate, Diamon-Fusion creates an ultra-thin, invisible barrier that protects surfaces from stains, corrosion, and other environmental pollutants. Just like a non-stick cooking pan makes cleaning easier and less frequent, so too will Diamon-Fusion reduce cleaning time and the frequency of cleanings. This HPD covers Diamon-Fusion® Step 1 Hand Applied Product (HAB). Other CSI MasterFormat may include 09 01 90.53 Finishes: Maintenance Coatings.



Section 1: Summary

Nested Method / Material Threshold

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Inventory Reporting Format
Nested Materials Method
C Basic Method

Threshold Disclosed Per

Material Product

Threshold level	
C 100 ppm	

⊙ 1,000 ppm

Per GHS SDS Per OSHA MSDS

C Other

Residuals/Impurities

Residuals/Impurities Considered in 1 of 1 Materials

Explanation(s) provided for Residuals/Impurities? Yes No

All Substances Above the Threshold Indicated Are:

C Yes Ex/SC • Yes C No Characterized % weight and role provided for all substances.

O Yes Ex/SC O Yes O No Screened

All substances screened using Priority Hazard Lists with results disclosed.

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.

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

DIAMON-FUSION® STEP 1 HAND APPLIED PRODUCT [ETHANOL BM-2 | CAN | PHY | END | REP | DEL UNDISCLOSED LT-P1 ISOPROPYL ALCOHOL BM-2 | PHY | EYE UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | RES | CAN | SKI | MAM | PHY WATER BM-4]

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

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Substances not "Identified" are those considered proprietary to the manufacturer, and thus are "Undisclosed" on this HPD.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 613 Regulatory (g/l): 614 Does the product contain exempt VOCs: No Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method - Not tested VOC content: EPA Method 24 - Volatile Matter Content (EPA 24)

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: 2019-04-03 PUBLISHED DATE: 2019-04-04 EXPIRY DATE: 2022-04-03



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, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

DIAMON-FUSION® STEP 1 HAND APPLIED PRODUCT

%: 100.0000

MATERIAL THRESHOLD: 1000 ppm

ETHANOL

RESIDUALS AND IMPURITIES CONSIDERED: Yes

ID: 64-17-5

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were "Considered", as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier SDS and as predicted by process chemistry (Pharos CML).

other material notes: Percent by weight of substances provided as range in order to further protect the proprietary nature of this formulation.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-04-03 %: 70.0000 - 81.0000 GS: **BM-2** RC: None ROLE: Solvent NANO: No HAZARD TYPE AGENCY AND LIST TITLES WARNINGS CANCER IARC Group 1 - Agent is Carcinogenic to humans **CANCER** CA EPA - Prop 65 Carcinogen - specific to chemical form or exposure route PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H225 - Highly flammable liquid and vapour **ENDOCRINE TEDX - Potential Endocrine Disruptors** Potential Endocrine Disruptor CANCER MAK Carcinogen Group 5 - Genotoxic carcinogen with very slight risk under MAK/BAT levels CANCER Japan - GHS Carcinogenicity - Category 1A REPRODUCTIVE Japan - GHS Toxic to reproduction - Category 1A

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool. The GreenScreen Assessment (NSF, 2014) was restricted to industrial and occupational uses, and excluded ethanol in alcoholic beverages. Hazards listed above may be specific to exposure route, and thus may not apply to this product when used as intended.

route

CA EPA - Prop 65

UNDISCLOSED

DEVELOPMENTAL

Developmental - specific to chemical form or exposure

HAZARD SCREENING METHOD: Phan	ros Chemical and Materials Library	HAZARD SCREE	HAZARD SCREENING DATE: 2019-04-03			
%: 9.0000 - 15.0000	GS: LT-P1	RC: None	nano: No	ROLE: Hydrophobic Coating		
HAZARD TYPE	AGENCY AND LIST TITLES	WARN	IINGS			
	No hazards found					

SUBSTANCE NOTES: This substance is held as proprietary by the manufacturer. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide (Version 3.1).

ISOPROPYL ALCOHOL ID: 67-63-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-04-03			
%: 5.0000 - 10.0000	gs: BM-2	RC: None	nano: No	ROLE: Solvent	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly	r flammable liquid a	nd vapour	
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Cause	es serious eye irritat	ion	

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-04-03			
%: 1.0000 - 10.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Hydrophobic Coating	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNI	NGS		
	No hazards found				

SUBSTANCE NOTES: This substance is held as proprietary by the manufacturer. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide (Version 3.1).

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENII	HAZARD SCREENING DATE: 2019-04-03		
%: 0.1000 - 1.0000	GS: LT-1	RC: None	NANO: No	ROLE: Catalyst	

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rr) - irritant-induced
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
PHYSICAL HAZARD (REACTIVE)	Korea - GHS	H290 - May be corrosive to metals

SUBSTANCE NOTES: This substance is held as proprietary by the manufacturer. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide (Version 3.1).

WATER 1D: 7732-18-5

HAZARD SCREENING METHOD: Pharos	HAZARD SCREENING DATE: 2019-04-03			
%: 0.0100 - 0.1000	GS: BM-4	RC: None	RC: None NANO: No ROLE: Solvei	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
No hazards found				

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-4 was provided by the HPD Builder Tool.



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

CDPH Standard Method - Not tested

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2019-

EXPIRY DATE:

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: N/A

02-20

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: CDPH Standard Method - Not tested

VOC CONTENT

EPA Method 24 - Volatile Matter Content (EPA 24)

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2019-

EXPIRY DATE:

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: All

02-20

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: VOC Content calculated from formulation.



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.

DIAMON-FUSION® STEP 2 HAND APPLIED PRODUCT

HPD URL: https://hpdrepository.hpd-collaborative.org/

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Required for application of Diamon-Fusion® 2-Step Hand Applied Coating System.



Section 5: General Notes

Similar to a non-stick cooking pan, Diamon-Fusion is an ultra-thin transparent barrier that adheres to the surface of the glass which repels dirt, water, and debris for an easy-to-clean solution. Protect the glass on commercial buildings from environmental damage, while reducing maintenance costs up to 50%. Diamon-Fusion keeps glass looking cleaner for longer and provides protection against wear and tear for entrance doors, guardrail systems, canopies, storefronts and much more. Additionally, treating shower glass with Diamon-Fusion eliminates the need for any harsh chemical cleaners, the glass stays cleaner for longer, and can easily be cleaned with water and a simple wipe down.

MANUFACTURER INFORMATION

MANUFACTURER: Diamon-Fusion International

ADDRESS: 9361 Irvine Boulevard

Irvine CA 92618, USA

WEBSITE: www.dfisolutions.com

CONTACT NAME: Syndi Sim

TITLE: Vice President, Marketing

PHONE: 1.888.344.4334

EMAIL: ssim@diamonfusion.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 (insuficient 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

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)

NoGS Unknown (no data on List Translator Lists)

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.