

CLASSIFICATION: CAFCO SPRAYFILM WB 4

PRODUCT DESCRIPTION: CAFCO SprayFilm WB 4 intumescent coating, when combined with CAFCO® SprayFilm® Topseal™, is the only water-based system investigated by Underwriters Laboratories (UL) for use in exterior applications. It features the same distinct advantages of SprayFilm WB 3 which allows architects the ability to design using exposed steel structures that can be decorative and aesthetically pleasing. CAFCO SprayFilm WB 4 can be top coated to match its surroundings which allow owners and designers the benefit of utilizing an environmentally friendly and visually appealing fireproofing method for steel structures which may be exposed to harsh exterior weather conditions. Available in trowel grade, CAFCO SprayFilm WB 4 TG can be used for hard to reach areas or for repair applications.

Section 1: Summary

Nested 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

Residuals/Impurities
Considered in 1 of 1 Materials

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

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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

CAFCO SPRAYFILM WB 4 [**WATER** BM-4 | **AMMONIUM POLYPHOSPHATE** BM-3 | **PENTAERYTHRITOL** LT-UNK | **SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)** LT-UNK | CAN | **MELAMINE** LT-P1 | CAN | **END** | **TITANIUM DIOXIDE** LT-1 | CAN | **END** | **ALUMINA TRIHYDRATE** BM-2 | RES | **ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE)** BM-2 | SKI | EYE | **END**]

Number of Greenscreen BM-4/BM3 contents ... 2

Contents highest concern GreenScreen
Benchmark or List translator Score ... LT-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): zero Regulatory (g/l): 50

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 V1.1 (Section 01350/CHPS) - Classroom & Office scenario
VOC content: EPA Method 24 - Volatile Matter Content (EPA 24)
Other: ILFI Declare - Red List Free

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: 2018-10-19

PUBLISHED DATE: 2018-12-10

EXPIRY DATE: 2021-10-19



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

CAFCO SPRAYFILM WB 4

#: 0.0000 - 100.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Impurities are displayed ingredients within the HPD

OTHER MATERIAL NOTES: Water-Based, Intumescent Fireproofing Material

WATER

ID: 7732-18-5

#: 25.0000 - 30.0000

GS: BM-4

RC: None

NANO: No

ROLE: Base

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

AMMONIUM POLYPHOSPHATE

ID: 68333-79-9

#: 15.0000 - 35.0000

GS: BM-3

RC: None

NANO: No

ROLE: Catalyst

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PENTAERYTHRITOL

ID: 115-77-5

#: 7.0000 - 13.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Carbon Source

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)

ID: 65997-17-3

#: 7.0000 - 13.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Reinforcement

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

SUBSTANCE NOTES:

MELAMINE

ID: 108-78-1

#: 7.0000 - 13.0000

GS: LT-P1

RC: None

NANO: No

ROLE: Blowing Agent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

IARC

Group 2B - Possibly carcinogenic to humans

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

#: 7.0000 - 13.0000

GS: LT-1

RC: None

NANO: No

ROLE: Coloring

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES:

ALUMINA TRIHYDRATE

ID: 21645-51-2

#: 3.0000 - 7.0000

GS: BM-2

RC: None

NANO: No

ROLE: Catalyst

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

%: **1.0000 - 5.0000**

GS: **BM-2**

RC: **None**

NANO: **No**

ROLE: **Coalescent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES:

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 V1.1 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: **Third Party**
APPLICABLE FACILITIES: **Lawrence, MA**
CERTIFICATE URL:

ISSUE DATE: **2017-04-19**
EXPIRY DATE:

CERTIFIER OR LAB: **UL Environmental**

CERTIFICATION AND COMPLIANCE NOTES: **Report# 18560-02**

VOC CONTENT

EPA Method 24 - Volatile Matter Content (EPA 24)

CERTIFYING PARTY: **Third Party**
APPLICABLE FACILITIES: **Lawrence, Massachusetts**
CERTIFICATE URL:

ISSUE DATE: **2008-07-18**
EXPIRY DATE:

CERTIFIER OR LAB: **American Research and Testing Inc.**

CERTIFICATION AND COMPLIANCE NOTES:

OTHER

ILFI Declare - Red List Free

CERTIFYING PARTY: **Third Party**
APPLICABLE FACILITIES: **Lawrence, MA**
CERTIFICATE URL: <https://living-future.org/declare-products/cafco-sprayfilm-wb-4/>

ISSUE DATE: **2018-09-01**
EXPIRY DATE: **2019-09-01**

CERTIFIER OR LAB: **International Living Future Institute**

CERTIFICATION AND COMPLIANCE NOTES: **ISK-1001**

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

Impurities are displayed ingredients within the HPD. Isolotek International provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademarks throughout the Americas and under the ISOLATEK® trademark throughout the remainder of the world.



MANUFACTURER INFORMATION

MANUFACTURER: **Isolatek International**
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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.