

HPD UNIQUE IDENTIFIER: 27352

CLASSIFICATION: 07 81 00 Applied Fire Protection

PRODUCT DESCRIPTION: CAFCO® 400 AC is a gypsum based medium density Wet Mix Spray-Applied Fire Resistive Material (SFRM) designed to provide protection for structural steel in commercial and high rise construction areas which may be subjected to higher levels of abuse such as mechanical and electrical rooms or elevator shafts. CAFCO 400 AC offers enhanced strength, durability and excellent fire protection and meets the current IBC bond strength requirement of ≥ 430 psf for buildings over 75 ft. in height and 1000 psf for buildings over 420 ft. in height. CAFCO 400 AC's physical properties, combined with superior fire resistive performance and application efficiencies, make it the ideal choice for high rise structures and interior conditioned environments.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input checked="" type="radio"/> Nested Materials Method <input type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material <input checked="" type="radio"/> Product</p>	<p>Threshold Level</p> <p><input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p>Considered in 1 of 1 Materials</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 <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 <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 <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
CAFCO 400 AC | PLASTER OF PARIS NoGS VERMICULITE NoGS BENTONITE LT-UNK CELLULOSE, MICROCRYSTALLINE LT-UNK | RES SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) LT-UNK | CAN LIMESTONE; CALCIUM CARBONATE BM-3dg QUARTZ BM-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:
 Spray Applied Fire Resistive Material

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 8.1 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

<p>Third Party Verified?</p> <p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>PREPARER: Self-Prepared VERIFIER: VERIFICATION #:</p>	<p>SCREENING DATE: 2022-01-14 PUBLISHED DATE: 2022-01-27 EXPIRY DATE: 2025-01-14</p>
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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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

CAFCO 400 AC

%: 0.0000 - 100.0000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Other: Spray Applied Fire Resistive Material

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

OTHER MATERIAL NOTES: Gypsum Based, Wet Spray, Cementitious, Applied Fireproofing Material

PLASTER OF PARIS

ID: 26499-65-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-14 20:00:06**

%: **60.0000 - 80.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Biological material**

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

SUBSTANCE NOTES:

VERMICULITE

ID: 1318-00-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-14 20:00:07**

%: **15.0000 - 30.0000** GS: **NoGS** 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:

BENTONITE

ID: 1302-78-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-14 20:00:07**

%: **1.0000 - 10.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Viscosity modifier**

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

SUBSTANCE NOTES:

CELLULOSE, MICROCRYSTALLINE

ID: 9004-34-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-14 20:00:08**

#: 1.0000 - 10.0000

GS: LT-UNK

RC: PostC

NANO: No

SUBSTANCE ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
SUBSTANCE NOTES:		

SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-14 20:00:09**

#: 0.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Textile component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
SUBSTANCE NOTES:		

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-14 20:00:09**

#: 0.0000 - 1.0000

GS: BM-3dg

RC: None

NANO: No

SUBSTANCE ROLE: Biological material

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

QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-01-14 20:00:10**

#: Impurity/Residual

GS: BM-1

RC: None

NANO: No

SUBSTANCE ROLE: Impurity/Residual

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	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]

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: Stanhope, NJ Houston, TX San Bernardino, CA
CERTIFICATE URL:
ISSUE DATE: 2017-08-01 00:00:00 EXPIRY DATE:
CERTIFIER OR LAB: UL Environmental
CERTIFICATION AND COMPLIANCE NOTES: Report# 18652-04

VOC CONTENT

EPA Method 24 - Volatile Matter Content (EPA 24)

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Stanhope, New Jersey Houston, Texas San Bernardino, California
CERTIFICATE URL:
ISSUE DATE: 2014-08-04 00:00:00 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: Stanhope, NJ San Bernardino, CA Houston, TX
CERTIFICATE URL: <https://living-future.org/declare-products/cafco-400-ac/>
ISSUE DATE: 2018-09-01 00:00:00 EXPIRY DATE: 2019-09-01 00:00:00
CERTIFIER OR LAB: International Living Future Institute
CERTIFICATION AND COMPLIANCE NOTES: ISK-0013, ISK-0014, ISK-0015

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.

Isolatek 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**
 ADDRESS: **41 Furnace Street**
Stanhope NJ 07874, USA
 WEBSITE: **www.isolatek.com**

CONTACT NAME: **Philip Mancuso**
 TITLE: **Senior Technical Services Manager | Standards & Certifications**
 PHONE: **973-347-1200**
 EMAIL: **technical@isolatek.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.