

CLASSIFICATION: 09 25 00 Finishes: Acoustical Spray on Finish

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Pyrok Acoustement 40 is a nominal 41 PCF (air-dried density) Portland cement/exfoliated vermiculite spray-applied formulation, which is 100% free from asbestos and mineral fibers, polystyrene, and cellulose. Pyrok Acoustement 40 is highly abuse resistant (impact, abrasion, moisture, hostile industrial environments), has excellent adhesion to a variety of substrates, and allows substrates to breathe and be cleaned by a variety of methods. This material is recommended for exterior exposures where resistance to environmental pollution, rain, corrosion, and spalling is required. Acoustement 40 may also be used in interior exposures such as transportation facilities, correctional projects, lobbies, tunnels, gymnasiums, manufacturing facilities, contact wall areas, and any other area requiring high abuse resistance and sound absorption qualities. It can also be used on interior surfaces of walkways, hallways, and rooms where a purely decorative finish is desired. Pyrok Acoustement 40 may also be used on ceilings as a combination acoustical finish and fireproofing material. Custom integral coloration is available within the limits of iron oxide pigmentation.

Section 1: Summary

Nested Method / Material 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

ACOUSTEMENT 40 | **PORTLAND CEMENT (PORTLAND CEMENT)** **LT-P1** | **END** | **CAN VERMICULITE (VERMICULITE)** **NoGS** | **CALCIUM MAGNESIUM HYDROXIDE (CALCIUM MAGNESIUM HYDROXIDE)** **NoGS** | **CALCIUM HYDROXIDE (CALCIUM HYDROXIDE)** **LT-P1** (C10-C16) | **ALKYL BENZENESULFONIC ACID SODIUM SALT ((C10-C16) ALKYL BENZENESULFONIC ACID SODIUM SALT)** **LT-UNK** | **HYDROXYPROPYL METHYL CELLULOSE (HYDROXYPROPYL METHYL CELLULOSE)** **LT-UNK** | **QUARTZ (QUARTZ)** **LT-1** | **CAN CALCIUM OXIDE (CALCIUM OXIDE)** **LT-P1** | **SILICA, AMORPHOUS (SILICA, AMORPHOUS)** **LT-P1** | **CAN ALUMINUM OXIDE (ALUMINUM OXIDE)** **LT-P1** | **RES SULFUR TRIOXIDE (SULFUR TRIOXIDE)** **LT-P1** | **MAM**]

Number of Greenscreen BM-4/BM3 contents..... 0
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, 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. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 2 Regulatory (g/l):
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 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: 2017-11-01

PUBLISHED DATE: 2017-11-01

EXPIRY DATE: 2020-11-01

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

ACOUSTEMENT 40

%: 100.0000 - 100.0000

HPD URL:

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals or impurities known or expected to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed based on information provided in supplier disclosure letters, supplier SDS, or as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent by weight of substances reported as range in order to protect the proprietary nature of this formulation.

PORTLAND CEMENT (PORTLAND CEMENT)

ID: 65997-15-1

%: 35.0000 - 45.0000

GS: LT-P1

RC: None

NANO: No

ROLE: Sound Damping; Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Mill Test Certificate Report for "White Cement" per ASTM C150 and AASHTO M85 (August, 2015): Calcium Oxide (CAS No. 1305-78-8; LT-P1), 66%; Silicon Dioxide (7631-86-9; LT-P1), 21.8%; Aluminum Oxide (1344-28-1; LT-P1), 3.9%; Iron III Oxide (1309-37-1; BM-2), 0.4%; Sulfur Trioxide (7446-11-9; LT-P1), 2.8%; Magnesium Oxide (1309-48-4; LT-UNK), 1.8%.

VERMICULITE (VERMICULITE)

ID: 1318-00-9

%: 30.0000 - 40.0000

GS: NoGS

RC: None

NANO: No

ROLE: Filler

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Supplier confirms that substance is 100% free from asbestos.

CALCIUM MAGNESIUM HYDROXIDE (CALCIUM MAGNESIUM HYDROXIDE)

ID: 39445-23-3

%: 15.0000 - 25.0000

GS: NoGS

RC: None

NANO: No

ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Synonym: Dolomitic Hydrated Lime

CALCIUM HYDROXIDE (CALCIUM HYDROXIDE)

ID: 1305-62-0

#: 5.0000 - 15.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Binder
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Synonym: Lime				

(C10-C16) ALKYL BENZENESULFONIC ACID SODIUM SALT ((C10-C16) ALKYL BENZENESULFONIC ACID SODIUM SALT)

ID: 68081-81-2

#: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Surfactant
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Identified on US EPA Safer Chemical Ingredient List.				

HYDROXYPROPYL METHYL CELLULOSE (HYDROXYPROPYL METHYL CELLULOSE)

ID: 9004-65-3

#: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Thickener
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Identified on US EPA Safer Chemical Ingredient List.				

QUARTZ (QUARTZ)

ID: 14808-60-7

#: Impurity/Residual	GS: LT-1	RC: None	NANO: No	ROLE: Impurity/Residual
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 1 - Agent is carcinogenic to humans - inhaled from occupational sources		
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)		
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man		
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens		

SUBSTANCE NOTES: Potential impurity of raw materials. Quartz is one of several compounds with warnings restricted to respirable forms (Silica, crystalline - airborne particles of respirable size). Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Quartz/Silica. This HPD will be updated as appropriate when these guidelines become available.

CALCIUM OXIDE (CALCIUM OXIDE)ID: **1305-78-8**

#: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Component of Portland Cement. Listed as "Known or Potential Residual" in Pharos CML.

SILICA, AMORPHOUS (SILICA, AMORPHOUS)ID: **7631-86-9**

#: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

SUBSTANCE NOTES: Component of Portland Cement. Listed as "Known or Potential Residual" in Pharos CML.

ALUMINUM OXIDE (ALUMINUM OXIDE)ID: **1344-28-1**

#: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Component of Portland Cement. Listed as "Known or Potential Residual" in Pharos CML.

SULFUR TRIOXIDE (SULFUR TRIOXIDE)ID: **7446-11-9**

#: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

US EPA - EPCRA Extremely Hazardous Substances

Extremely Hazardous Substances

SUBSTANCE NOTES: Component of Portland Cement. Listed as "Known or Potential Residual" in Pharos CML.

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 CONTENT

EPA Method 24 - Volatile Matter Content (EPA 24)

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2017-05-

EXPIRY DATE:

CERTIFIER OR LAB: VTEC

APPLICABLE FACILITIES: All

24

Laboratories, Inc.

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: SCOPE: Determination of VOC Content in submitted Sample materials according to EPA Method-24 Protocols with LOD @ 110oC for TOTAL Volatiles and K-F moisture analysis to subtract to determine Total Volatile Organic compounds (VOCs). Total VOC Content: 0.17% (~2 g/L).

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

Pyrok, Inc. recommends application of Pyrok Acoustement 40 be performed only by approved Pyrok applicators. An approved applicator list is available from Pyrok, Inc. Pyrok Acoustement 40 may be applied directly to clean, bare steel, clean galvanized steel or a wide variety of unpainted concrete, cement board and other clean, sound substrates. Some substrates will require metal lath. Contact Pyrok, Inc. for verification of compatibility with substrate, suitability of primer and potential requirement of expanded metal lath.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Pyrok, Inc.**

ADDRESS: **121 Sunset Road**

Mamaroneck NY 10543, USA

WEBSITE: **www.acoustement.com**

CONTACT NAME: **Howard Podolsky**

TITLE: **Owner**

PHONE: **914-777-7070**

EMAIL: **howard@pyrok.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	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.