

HPD UNIQUE IDENTIFIER: 26672

CLASSIFICATION: 06 11 13 Engineered Wood Products

PRODUCT DESCRIPTION: This HPD covers the following Encore FR and APEX FR Series: Encore FR, Encore FR Door Core, APEX FR. Encore™ FR and APEX FR are Class 1 (A) certified sustainable design particleboard (SDP) panels made from recycled wood and meet stringent formaldehyde emission standards. Ampine’s® manufacturing process utilizes a formaldehyde-free adhesive system to produce Encore FR and APEX FR. During processing, a fire resistant additive is blended with wood fiber to provide flame retardant properties throughout the panel, which ensures the panel maintains its fire resistance when it is machined or sanded. This process results in an extra layer of protection compared to products made with surface flame retardant coatings. Encore FR is ideal for LEED® and other environmentally focused building projects requiring Class 1 (A) certified flame retardant materials, including when certain indoor air quality requirements are specified. APEX FR is engineered for superior strength and machinability. Encore FR and APEX FR are manufactured at the Ampine mill in Sutter Creek, California.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities	
☐ Nested Materials Method	☐ 100 ppm	☒ Considered	<i>All Substances Above the Threshold Indicated Are:</i>
☒ Basic Method	☒ 1,000 ppm	☐ Partially Considered	Characterized ☒ Yes Ex/SC ☐ Yes ☐ No
	☐ Per GHS SDS	☐ Not Considered	<i>% weight and role provided for all substances except SC substances characterized according to SC guidance.</i>
Threshold Disclosed Per		Explanation(s) provided for Residuals/Impurities?	Screened ☒ Yes Ex/SC ☐ Yes ☐ No
☐ Material	☐ Other	☒ Yes ☐ No	<i>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</i>
☒ Product			Identified ☐ Yes Ex/SC ☐ Yes ☒ No
			<i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i>

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

ENCORE FR AND APEX FR PARTICLE BOARD | SC:CELLULOSE Not Screened **BORON SODIUM OXIDE (B8NA2O13), TETRAHYDRATE** LT-1 | REP | MUL **POLYMERIC MDI (PMDI)** LT-UNK | MUL | RES | CAN **WATER** BM-4 **UREA** LT-UNK **METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)** LT-UNK | CAN | MUL | RES | SKI | EYE **UNDISCLOSED** BM-4 **UNDISCLOSED** LT-UNK **DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC** LT-UNK | CAN | MUL | SKI | EYE | RES **UNDISCLOSED** LT-1 | CAN | MUL **DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI)** LT-UNK | CAN | MUL | SKI | EYE | RES |

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:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

All residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold. Due to the proprietary nature of the information, the name and CAS numbers for certain chemicals have been redacted from this substance entry.

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 VOC Certification

Formaldehyde content: SCS No Added Formaldehyde Guidelines V3-0

Composite Wood: CPA 4-11 ECC Sustainability Standard and CARB ATCM 93120

Recycled content: SCS Recycled Content Standard V7-0

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- ☒ Yes
- ☐ No

PREPARER: Self-Prepared
VERIFIER: SCS Global Services
VERIFICATION #: qGE-4595

SCREENING DATE: 2020-03-04
PUBLISHED DATE: 2021-12-06
EXPIRY DATE: 2023-03-04

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

ENCORE FR AND APEX FR PARTICLE BOARD

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Ampine worked with the preparer to verify that all residual and impurities have been considered under this current HPD.

OTHER PRODUCT NOTES: This HPD is being used to describe several products that are generally similar in content but differ in the percentages of some ingredients. The substances below are reported in absolute minimum and maximum. Each particleboard formulation was provided at 100%.

SC:CELLULOSE

ID: SC:Bio

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: Not Screened

?: 81.3000 - 83.7200

GS: Not Screened

RC: Both

NANO: No

SUBSTANCE ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Tree-based materials

Identifier: Pine, Sugar Pine, White Fir, Doug Fir, Eucalyptus, and Cedar in the form of shavings, hog wood, chips, saw dust, and fines.

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials. Pine, Sugar Pine, White Fir, Doug Fir, Eucalyptus, and Cedar in the form of shavings, hog wood, chips, saw dust, and fines.

BORON SODIUM OXIDE (B8NA2O13), TETRAHYDRATE

ID: 12280-03-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-05 1:29:02

?: 10.4600 - 12.7000

GS: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Flame retardant

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

REP EU - Annex VI CMRs Reproductive Toxicity - Category 1B

MUL ChemSec - SIN List CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

REP EU - REACH Annex XVII CMRs Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans

REP GHS - Australia H360Fd - May damage fertility. Suspected of damaging the unborn child

REP GHS - Japan Toxic to reproduction - Category 1B [H360]

SUBSTANCE NOTES:

POLYMERIC MDI (PMDI)

ID: 9016-87-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-03-05 1:29:02

%: 1.3400 - 1.9300 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-03-05 1:29:02

%: 1.2000 - 1.6200 GS: BM-4 RC: None NANO: No SUBSTANCE ROLE: Solvent

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

SUBSTANCE NOTES:

UREA

ID: 57-13-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-03-05 1:29:02

%: 1.2000 - 1.6200 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Flame retardant

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

SUBSTANCE NOTES:

METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)

ID: 101-68-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-03-05 1:29:03

%: 0.6200 - 1.2500 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

UNDISCLOSEDID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-05 1:29:03		
%: 0.3200 - 0.4300	GS: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Solvent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: This chemical has been identified and screened by the preparer. Due to its proprietary nature, this chemical and its CAS# were not able to be disclosed on this HPD.

UNDISCLOSEDID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-05 1:29:03		
%: 0.3000 - 0.3600	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Surface modifier
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: This chemical has been identified and screened by the preparer. Due to its proprietary nature, this chemical and its CAS# were not able to be disclosed on this HPD.

DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFICID: 26447-40-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-05 1:29:03		
%: 0.1800 - 1.2600	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
SUBSTANCE NOTES:		

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-05 1:29:04			
%: 0.1500 - 0.1800		GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Surface modifier
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
CAN	EU - GHS (H-Statements)		H350 - May cause cancer		
CAN	EU - REACH Annex XVII CMRs		Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man		
CAN	EU - Annex VI CMRs		Carcinogen Category 1B - Presumed Carcinogen based on animal evidence		
MUL	ChemSec - SIN List		CMR - Carcinogen, Mutagen &/or Reproductive Toxicant		
MUL	German FEA - Substances Hazardous to Waters		Class 3 - Severe Hazard to Waters		
CAN	GHS - Australia		H350 - May cause cancer		
SUBSTANCE NOTES: This chemical has been identified and screened by the preparer. Due to its proprietary nature, this chemical and its CAS# were not able to be disclosed on this HPD.					

DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI)

ID: 5873-54-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-06 1:34:01		
%: 0.0900 - 0.1700	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

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		No VOC Certification	
CERTIFYING PARTY: Self-declared		ISSUE DATE: 2020-02-01	EXPIRY DATE: CERTIFIER OR LAB: N/A
APPLICABLE FACILITIES: N/A			
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: CDPH Standard V1.2 (Section 01350/CHPS)- Not tested			
FORMALDEHYDE CONTENT		SCS No Added Formaldehyde Guidelines V3-0	
CERTIFYING PARTY: Third Party		ISSUE DATE: 2020-10-01	EXPIRY DATE: 2022-09-30
APPLICABLE FACILITIES: Only includes products manufactured at the Sutter Creek, CA site.			CERTIFIER OR LAB: SCS Global Services
CERTIFICATE URL: https://www.scscertified.com/products/cert_pdfs/Ampine_2020_SCS-NAF-01510_s.pdf			
CERTIFICATION AND COMPLIANCE NOTES: Registration # SCS-NAF-01510. Conforms to the SCS No Added Formaldehyde Guidelines V3-0. This product was validated to contain no added compounds using urea formaldehyde or phenol formaldehyde in conformance to the SCS No Added Formaldehyde Guidelines, V3-0 (April 2013).			
COMPOSITE WOOD		CPA 4-11 ECC Sustainability Standard and CARB ATCM 93120	
CERTIFYING PARTY: Second Party		ISSUE DATE: 2016-01-20	EXPIRY DATE: CERTIFIER OR LAB: Composite Panel Association
APPLICABLE FACILITIES: Sutter Creek, California.			
CERTIFICATE URL: https://www.compositepanel.org/sustainability/ecc/ecc-company-directory.html			
CERTIFICATION AND COMPLIANCE NOTES: Eco-Attributes: Carbon Footprint, Locally Sourced Fiber, Recycled, Recovered, or Post-Consumer Fiber Content, Sustainable Use of Wood Fiber.			
RECYCLED CONTENT		SCS Recycled Content Standard V7-0	
CERTIFYING PARTY: Third Party		ISSUE DATE: 2020-10-01	EXPIRY DATE: 2022-09-30
APPLICABLE FACILITIES: Only includes products manufactured at the Sutter Creek, CA site.			CERTIFIER OR LAB: SCS Global Services
CERTIFICATE URL: https://www.scscertified.com/products/cert_pdfs/Ampine_2020_SCS-MC-03670_s.pdf			
CERTIFICATION AND COMPLIANCE NOTES: Registration # SCS-MC-03670. Conforms to SCS Recycled Content Standard V7-0 for a Minimum 82% Pre-Consumer Recycled Wood Content (dry-weight basis).			
SUSTAINABLE FORESTRY		FSC 100%, FSC Mix, FSC Controlled Wood	
CERTIFYING PARTY: Third Party		ISSUE DATE: 2018-09-03	EXPIRY DATE: 2023-09-02
APPLICABLE FACILITIES: This certificate covers the production and distribution of hardwood and softwood plywood, particleboard, decorative overlays, softwood veneer, decorative veneer and plywood, bark, chips, peeler cores, logs, lumber, and platforms using the transfer, percentage and credit systems. It also covers the purchase and sale of FSC Controlled Wood; risk assessments for the control of wood sourced from Southern Oregon, Northern California, Eastern United States, and Eastern Canada; and the sourcing of pre-consumer reclaimed rough wood and round logs.			CERTIFIER OR LAB: SCS Global Services
CERTIFICATE URL: https://www.timberproducts.com/uploads/library_pdfs/1154/fsc_custody.pdf			
CERTIFICATION AND COMPLIANCE NOTES: Certificate Code: SCS-COC-000573; FSC Standard: FSC-STD-40-003 V2-1; FSC-STD-40-004 V3-0; FSC-STD-40-005 V3-1; FSC-STD-40-007 V2-0; FSCSTD-50-001 V2-0. The assessment has been conducted by Scientific Certification Systems (SCS) in accordance with the rules of the Forest Stewardship Council® A.C. (FSC).			

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

This HPD covers the following Encore FR and APEX FR Series: Encore FR, Encore FR Door Core, APEX FR.

MANUFACTURER INFORMATION

MANUFACTURER: Ampine LLC
ADDRESS: 11610 Ampine-Fiberform
 Sutter Creek CA 95685, United States
WEBSITE: www.timberproducts.com

CONTACT NAME: Terry Velasco
TITLE: General Manager
PHONE: 2092236001
EMAIL: tvelasco@timberproducts.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.