

CLASSIFICATION: 06 11 13 ENGINEERED WOOD PRODUCTS

PRODUCT DESCRIPTION: ENCORE™ AND APEX ARE SUSTAINABLE DESIGN PARTICLEBOARD (SDP) PANELS MANUFACTURED FROM RECYCLED WOOD RESIDUALS, AND MEET STRINGENT FORMALDEHYDE EMISSION STANDARDS. AMPINE'S® MANUFACTURING PROCESS UTILIZES A FORMALDEHYDE-FREE (NAF) ADHESIVE SYSTEM TO PRODUCE ENCORE AND APEX PARTICLEBOARDS. ENCORE'S LIGHT COLOR AND MACHINING QUALITIES MAKE IT IDEAL FOR INDOOR APPLICATIONS ON LEED PROJECTS OR ANYWHERE THAT INDOOR AIR QUALITY IS A PRIMARY GOAL. APEX, A HIGH PHYSICAL PROPERTY, SUSTAINABLE DESIGN COMPOSITE PANEL, IS ENGINEERED FOR SUPERIOR STRENGTH AND MACHINABILITY. ENCORE AND APEX ARE MANUFACTURED AT THE AMPINE MILL IN SUTTER CREEK, CALIFORNIA. THIS HPD COVERS THE FOLLOWING ENCORE AND APEX SERIES: ENCORE, ENCORE MR, ENCORE MR50, ENCORE SELECT, ENCORE HD, ENCORE ELITE, ENCORE CTG, ENCORE MR ELITE, ENCORE PREMIUM, ENCORE DOOR CORE, APEX, APEX MR50.

Section 1: Summary

CONTENT INVENTORY

- Threshold per material
- 100 ppm
 - 1,000 ppm
 - Per GHS SDS
 - Per OSHA MSDS
 - Other

- Residuals and impurities considered in 1 of 1 materials
- see Section 2: Material Notes
 - see Section 5: General Notes

Based on the selected Content Inventory Threshold:

| | | |
|---|----------------------------------|-----------------------|
| Characterized..... | <input checked="" type="radio"/> | <input type="radio"/> |
| Are the Percent Weight and Role provided for all substances? | Yes | No |
| Screened..... | <input checked="" type="radio"/> | <input type="radio"/> |
| Are all substances screened using Priority Hazard Lists with results disclosed? | Yes | No |
| Identified..... | <input checked="" type="radio"/> | <input type="radio"/> |
| Are all substances disclosed by Name (Specific or Generic) and Identifier? | Yes | No |

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.

Number of Greenscreen BM-4/BM3 contents..... 1
 Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
 Nanomaterial..... No

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

ENCORE AND APEX PARTICLEBOARD [CELLULOSE, MICROCRYSTALLINE UNK POLYMERIC MDI (PMDI) LT-UNK | RES | MUL | CAN METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) LT-UNK | MAM | EYE | SKI | CAN | RES | MUL DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC LT-UNK | MAM | EYE | SKI | CAN | RES | MUL UNDISCLOSED #1 BM-4 UNDISCLOSED #2 LT-1 | CAN | MUL]

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

Recycled content: SCS Recycled Content Standard V7-0
 Formaldehyde content: SCS No Added Formaldehyde Guidelines V3-0
 Composite Wood: CPA 4-11 ECC Sustainability Standard and CARB ATCM 93120
 Sustainable forestry: FSC 100%, FSC Mix, FSC Controlled Wood

See Section 3 for additional listings.

| | | | |
|--|-----------------|----------------------------------|--|
| <input checked="" type="radio"/> Self-Published* | VERIFIER: | SCREENING DATE: October 25, 2016 | EXPIRY DATE*: October 25, 2019 |
| <input type="radio"/> Third Party Verified | VERIFICATION #: | RELEASE DATE: October 25, 2016 | * or within 3 months of significant change in product contents |
| *See HPDC website for details | | | |



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

ENCORE AND APEX PARTICLEBOARD

%: 100.0000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material 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 is reported at 100%.

CELLULOSE, MICROCRYSTALLINE

ID: 9004-34-6

%: 94.5400 - 97.1000

GS: UNK

RC: None

NANO: NO

ROLE: Wood Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

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

POLYMERIC MDI (PMDI)

ID: 9016-87-9

%: 1.3800 - 3.3400

GS: LT-UNK

RC: None

NANO: NO

ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

RESTRICTED LIST

US EPA - PPT Chemical Action Plans

EPA Chemical of Concern - Action Plan published

RESPIRATORY

US EPA - PPT Chemical Action Plans

Inhalation sensitizer causing asthma and lung damage

CANCER

MAK

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

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES:

METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)

ID: 101-68-8

%: 0.9300 - 2.2700

GS: LT-UNK

RC: None

NANO: NO

ROLE: Binder

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

| | | |
|-----------------|------------------------------------|--|
| MAMMALIAN | EU - R-phrases | R20 - Harmful by Inhalation (gas or vapor or dust/mist) |
| EYE IRRITATION | EU - R-phrases | R36 - Irritating to eyes |
| SKIN IRRITATION | EU - R-phrases | R38 - Irritating to skin |
| CANCER | EU - R-phrases | R40 - Limited Evidence of Carcinogenic Effects |
| RESPIRATORY | EU - R-phrases | R42 - May cause sensitization by inhalation |
| SKIN SENSITIZE | EU - R-phrases | R43 - May cause sensitization by skin contact |
| ORGAN TOXICANT | EU - R-phrases | R48: Danger of serious damage to health by prolonged exposure. |
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (G) - generally accepted |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN IRRITATION | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |
| CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |
| RESPIRATORY | MAK | Sensitizing Substance Sah - Danger of airway & skin sensitization |

SUBSTANCE NOTES:

DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC

ID: 26447-40-5

%: 0.1800 - 0.4500

GS: LT-UNK

RC: None

NANO: NO

ROLE: Binder

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

| | | |
|-----------------|----------------|---|
| MAMMALIAN | EU - R-phrases | R20 - Harmful by Inhalation (gas or vapor or dust/mist) |
| EYE IRRITATION | EU - R-phrases | R36 - Irritating to eyes |
| SKIN IRRITATION | EU - R-phrases | R38 - Irritating to skin |
| CANCER | EU - R-phrases | R40 - Limited Evidence of Carcinogenic Effects |

| | | |
|-----------------|------------------------------------|--|
| RESPIRATORY | EU - R-phrases | R42 - May cause sensitization by inhalation |
| SKIN SENSITIZE | EU - R-phrases | R43 - May cause sensitization by skin contact |
| ORGAN TOXICANT | EU - R-phrases | R48: Danger of serious damage to health by prolonged exposure. |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN IRRITATION | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |

SUBSTANCE NOTES:

UNDISCLOSED #1

ID:

%: 0.1700 - 0.4200 GS: BM-4 RC: None NANO: NO ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED #2

ID:

%: 0.0700 - 0.1800 GS: LT-1 RC: None NANO: NO ROLE: Additive

HAZARDS:

AGENCY(IES) WITH WARNINGS:

| | | |
|----------|---|--|
| CANCER | EU - R-phrases | R45 - May cause cancer |
| CANCER | EU - GHS (H-Statements) | H350 - May cause cancer |
| CANCER | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters |

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.

RECYCLED CONTENT

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Only includes products manufactured at the Martell, CA site.

CERTIFICATE URL: Registration # SCS-MC-01095

CERTIFICATION AND COMPLIANCE NOTES: Minimum 90% with at least 8% Post-Consumer and Balance 82% Pre-Consumer Recycled Wood Content (dry-weight basis)

SCS Recycled Content Standard V7-0

| | | |
|-------------|--------------|---------------------|
| ISSUE DATE: | EXPIRY DATE: | CERTIFIER OR LAB: |
| 2016-10-01 | 2017-09-30 | SCS Global Services |

FORMALDEHYDE CONTENT

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Only includes products manufactured at the Martell, CA site.

CERTIFICATE URL: Registration # SCS-NAF-01510

CERTIFICATION AND COMPLIANCE NOTES: Conforms to the SCS No Added Formaldehyde Guidelines V3-0.

SCS No Added Formaldehyde Guidelines V3-0

| | | |
|-------------|--------------|---------------------|
| ISSUE DATE: | EXPIRY DATE: | CERTIFIER OR LAB: |
| 2016-10-01 | 2017-09-30 | SCS Global Services |

COMPOSITE WOOD

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Martell, California

CERTIFICATE URL: ECCproduct.org

CERTIFICATION AND COMPLIANCE NOTES: Eco-Attributes: Carbon Footprint, Locally Sourced Fiber, Recycled, Recovered, or Post-Consumer Fiber Content, Sustainable Use of Wood Fiber.

CPA 4-11 ECC Sustainability Standard and CARB ATCM 93120

| | | |
|-------------|--------------|--|
| ISSUE DATE: | EXPIRY DATE: | CERTIFIER OR LAB: |
| 2016-01-20 | 0000-00-00 | Eco-Certified Composites-Composite Panel Association |

SUSTAINABLE FORESTRY

CERTIFYING PARTY: Third Party

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.

CERTIFICATE URL: SCS-COC-000573 Trademark License Code: FSC-C021324

CERTIFICATION AND COMPLIANCE NOTES: The assessment has been conducted by Scientific Certification Systems (SCS) in accordance with the rules of the Forest Stewardship Council® A.C. (FSC). FSC Standard: FSC-STD-40-004 V2-1; FSC-STD-40-005 V2-1; FSC-STD-40-007 V2-0

FSC 100%, FSC Mix, FSC Controlled Wood

| | | |
|-------------|--------------|---------------------|
| ISSUE DATE: | EXPIRY DATE: | CERTIFIER OR LAB: |
| 2013-09-03 | 2018-09-02 | SCS Global Services |



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.



Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: Ampine LLC

CONTACT NAME: Terry Velasco

ADDRESS: 11610 Ampine-Fiberform
Sutter Creek, CA 95685
USA

TITLE: General Manager

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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) BM-2
Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient
information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data to benchmark)

UNK Unknown (no data on List Translator Lists)

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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.