GREENLAM GENERAL PURPOSE HIGH PRESSURE DECORATIVE LAMINATES

CLASSIFICATION :29.08.2023

Health Product Declaration v2.3

PRODUCT DESCRIPTION: General purpose decorative laminates made by bonding layers of thermosetting resin impregnated décor and Kraft papers of different varieties and properties. The products are made available from 0.5mm thickness sheets that need to be bonded to a substrate as well as a thickness as high as 25.0mm which is self-supporting in nature. The products are used for different purposes, both internal and exterior, furnitures, partitions, table and counter tops, case working, rest room cubicles etc., where a variety of aesthetic decors in different finishes and sizes meet the end use requirements. The products are best suited for ease of maintenance, long durability and surface characteristics like heat, stain, scratch and abrasion resistance.

Section 1: Summary

Basic 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
- ○ Considered
- Partially Considered
- ○ **Not Considered**

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

For all contents above the threshold, the manufacturer has:

Characterized ○ **Yes** ○ No

Percent Weight and Role

Screened ○ Yes ○ No

Provided screening results using HPDC-approved methods

Identified ○ Yes ○ **No**

Provide Name and CAS RN or other Identifier

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.

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

HIGH PRESSURE LAMINATE (KRAFT PAPER NoGS
PHENOLIC RESIN LT-P1 RES LT-UNK UNDISCLOSED
(DECORATIVE SURFACE LAYER) NoGS]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC CONTENTS DATA IS NOT APPLICABLE FOR THIS PRODUCT CATEGORY

Number of Greenscreen BM-4/BM-3 contents:0

Contents highest concern Green Screen Benchmark or List translator Score: LT-P1

Nanomaterial: Nil

INVENTORY AND SCREENING NOTES: None

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

- **Formaldehyde & Total Aldehydes :Greenguard Gold Certified**
- **Sustainable Forestry: FSC Certified-Chain of Custody (COC)**
- **NSF ANSI-35 Certified**

CONSISTENCY WITH OTHER PROGRAMS: None

Third Party Verified?
- ○ Yes
- ○ **No**

PREPARER: **SELF PREPARED**

VERIFIER:

VERIFICATION #:

SCREENING DATE::**29.08.2023**

PUBLISHED DATE: **29.08.2023**

EXPIRY DATE: **28.08.2024**

Revision : **02**

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

GREENLAM HPLs

PRODUCT THRESHOLD: **100 ppm** RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS/IMPURITIES NOTES:

Relevant Residuals are tested by UL environment on a quarterly basis and Green guard Gold certificate is achieved for Total VOC on all HPLs.

OTHER PRODUCT NOTES:

HPL are made up of layers of Kraft papers impregnated with phenolic resins for the thickness building core and Décor papers impregnated with Melamine Resin (Amino-Plastic Resins) that are used on the surface. These papers are assembled between Stainless Steel Textured Mold Placed and pressed under high pressure of about 7MPa and a temperature of 150°C. The Polymeric resins in the papers cross link in the press and become a consolidated thermoset product. The degree of cure being very high, the residuals are a very small fraction of the un-polymerized components and are less than 7.3 parts per billion under the Green guard test protocol.

KRAFT PAPER

CAS ID: **65996-61-4**

%: **56.0000 - 63.0000** GS: **No GS** RC: **PostC** NANO: **No** ROLE: **Core structural layer**

HAZARDS

None Found

AGENCY(IES) WITH WARNINGS: **No warnings found on HPD Priority lists, Appendix E**

SUBSTANCE NOTES:

Approx. Post-consumer content 8-14%

PHENOLIC RESIN

CAS ID: **9003-35-4**

%: **14.0000 - 19.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Thermosetting Phenolic core sheet bonding component**

HAZARDS **RESPIRATORY**

AGENCY(IES) WITH WARNINGS: **AOEC – Asthmagens HPD Priority lists, Appendix E**

Asthmagens (Rs) - sensitizer-induced

SUBSTANCE NOTES: **Used for impregnating Kraft paper prior used in curing press.**

MELAMINE RESIN

CAS ID: **9003-35-4**

%: **8.0000 - 12.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Amino plastic surface sheet bonding component**

HAZARDS **None Found**

AGENCY(IES) WITH WARNINGS: **No warnings found on HPD Priority lists**

SUBSTANCE NOTES: **Used for impregnating Kraft paper prior used in curing press.**

DECORATIVE SURFACE LAYER

CAS ID: **65996-61-4**

%: **6.0000 - 11.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Decorative Surface Layer**

HAZARDS None Found

AGENCY(IES) WITH WARNINGS: **No warnings found on HPD Priority lists, Appendix E**

SUBSTANCE NOTES: **Used to impart design and protective surface to HPDL.**

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.

FORMALDEHYDE EMISSIONS

Green Guard - Gold

CERTIFYING PARTY: **Third Party**
ISSUE DATE: **2008-07-07**
EXPIRY DATE: **2024-07-07**
CERTIFIER OR LAB: **UL Environment-Green guard**

APPLICABLE FACILITIES: **Behror(RJ), Nalagarh(HP), INDIA**

CERTIFICATE URL: https://www.greenlam.co.in/media/pdf/GreenGuard-Gold-Certification-GHPL.pdf
https://www.greenlam.co.in/media/pdf/Greenguard-Gold-Certification-GCL.pdf

CERTIFICATION AND COMPLIANCE NOTES: **Certification is renewed on an annual basis. laminates have been evaluated under the GREENGUARD certification program since 2008 UL 2818-2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2007 using a Classroom Environment**

SUSTAINABLE FORESTRY

FSC Certification - Chain of Custody (COC)

CERTIFYING PARTY: **Third Party**
ISSUE DATE: **2023-07-26**
EXPIRY DATE: **2028-07-25**
CERTIFIER OR LAB: **DNV**

APPLICABLE FACILITIES: **Behror(RJ), Nalagarh(HP), Prantij(GJ) INDIA**

CERTIFICATE URL:
https://www.greenlam.co.in/media/pdf/FSC-Certification.pdf

CERTIFICATION AND COMPLIANCE NOTES: **FSC is an international non-profit, multi-stakeholder organization established in 1993 to promote responsible management of the world's forests. The FSC does this by setting standards on forest products, along with certifying and labeling them as eco-friendly. It was created out of concern for the loss of the world's Forests and failure to address deforestation. FSC forest management certification is awarded to forest managers who adopt practices that provide environmental, social and economic benefits. The FSC Chain of Custody (CoC) system allows the tracking of FSC certified material from the forest to the consumer**

OTHER

NSF

CERTIFYING PARTY: **Third Party**
ISSUE DATE: 2023
EXPIRY DATE: **2024**
CERTIFIER OR LAB: **NSF**
APPLICABLE FACILITIES: **Behror(RJ), Nalagarh(HP), INDIA**

CERTIFICATE URL:
https://www.greenlam.co.in/media/pdf/NSF-Certification.pdf

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.

None

HPD URL:

Section 5: General Notes

Greenlam brand laminates have been evaluated under the GREENGUARD certification program since 2007 UL 2818-2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2007 using a Classroom Environment.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Greenlam Industries Ltd.**
ADDRESS: **2nd Floor, West Wing,** Worldmark 1, Aerocity, IGI Airport Hospitality District New Delhi -110037
India

WEBSITE: http://www.greenlamindustries.com

CONTACT NAME: **Mr. G. S. R. A. SHARMA**

TITLE: **General Manager, Quality Assurance**

PHONE: **+919799495746**

EMAIL: gsra.sharma@greenlam.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classi cation and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern) **BM-U** Benchmark Unspeci ed (insu cient data to benchmark)
LT-P1 List Translator Possible Benchmark 1 **LT-1** List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) **NoGS** 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 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 v2.3 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.*

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.