MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC, Article 31.º

SURFORMA®
Shaping Spaces

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name
SURFORMA®
(All Grades and Thicknesses)

Trade Name
High Pressure Decorative Laminate

Relevant Identified Uses
Decorative Laminates

Coating substrates such as chipboard or MDF to use as floors, wall claddings and other surfaces and furniture components.

Manufacturer
Sonae-Indústria de revestimentos S.A.
Lugar do Espido
Apartado 1129
4471-909 Maia – Portugal
Tel. 22 010 63 00

In case of emergency contact
— Company: + (351) 22 010 6392
— Official Poison Center: + (351) 808 250 143
— Email address of person responsible for Safety Data Sheet: lucilia.tavares@surforma.com

2. HAZARDS IDENTIFICATION

Globally Harmonized System Of Classification and Labelling of Chemicals (GHS)
— GHS Classification: Not classified. Material is classified as non-hazardous article
— GHS Signal Words with Hazard and Precautionary Statements: Not Applicable
— GHS Pictograms: Not applicable

Precautionary Statements
No known hazards for material as supplied. During fabrication operations such as sawing, sanding, drilling, routing, cutting etc. dust consisting or cured resin, paper fiber and minute amounts of formaldehyde are generated at the point of operation. Formaldehyde may be released in minute but detectable amounts when material is shipped or stored in bulk quantities.

Potential Health effects
Sanding, sawing, drilling, routing, etc. of this material may generate airborne nuisance dust. This dust may cause eye, nose, skin, and upper respiratory tract irritation. Asthmatic conditions maybe aggravated by the dust generated.

Use of appropriate personal protection and/or engineering controls (such as local exhaust ventilation) should be employed whenever sanding, sawing, drilling, routing, etc. of this material.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name — Paper / Cellulose Fiber
CAS# — 9004-34-6
% by weight — 60 to 70

Name — Cured Thermosetting Resins
CAS# — Proprietary
% by weight — 30 to 40

4. FIRST AID MEASURES

Inhalation
No hazard for product as sold. Fabrication operations such as milling, cutting, grinding, etc, may produce dust or chips that may be irritating or harmful if inhaled. Remove from exposure to fresh air. If irritation persists, seek medical attention.

Skin Contact
Solid sheet may be abrasive to, or cut skin. Fabrication operations such as milling, cutting, grinding, etc., may produce dust or chips that may be irritating. Wash with soap and water. If irritation persists, seek medical attention.

Eye Contact
No hazard for product as sold. Fabrication operations such as milling, cutting, grinding, etc, may produce dust or chips that may be irritating. Rinse eyes with water. If irritation persists, seek medical attention.

Ingestion
Not an expected route of entry with normal use of product. Treat symptomatically and supportively if dust is ingested.

5. FIRE-FIGHTING MEASURES

Flash Point: Not Applicable
Flash Point Method: Not Applicable
Auto ignition Temp: Not Available
Burning Rate: Not Available

— Use extinguishing media appropriate for surrounding fire.
— Wear fire protective equipment appropriate for the surrounding fire.
— Hazardous products of combustion include various oxides of carbon and nitrogen, ammonia and formaldehyde.

Suitable extinguishing agents
Use water spray, carbon dioxide or dry chemical foam to extinguish flames

Advice for fire-fighting
Combustion products may be irritating to eyes, skin and the respiratory tract. Avoid breathing smoke.

The use of respiratory protective equipment may be necessary, such as self-contained breathing apparatus and full fire-fighting turnout gear

Unusual Fire and Explosion Hazards
Product as sold does not present an explosion hazard. Finely divided dust generated by fabrication operations such as milling, cutting, grinding, etc., can create an explosion hazard if the airborne dust concentration exceeds 900 grams per cubic meter and it contacts an ignition source greater than 8 Joules (a person standing in a uniformly dispersed dust cloud of 50 grams per cubic meter will not be able to see his/her outstretched hand).

Safety precautions and proper ventilation as recommended by NFPA-68 for Class ST-1 dusts should be followed to prevent this or any Class ST-1 dust from presenting an explosion hazard.

6. MEASURES FOR ACCIDENTAL RELEASE

Personal Precautions
Material is non-hazardous as supplied. Review personal protection measures in Section 8.

Environmental Precautions
None.

Methods for Clean-up
Recover undamaged materials for reuse or reclamation. Sweep or pick up scrap material and place in disposal containers.

7. HANDLING AND STORAGE

Handling
No specific usage precautions required. Follow normal good hygiene practices. It is recommended to use gloves against mechanical actions in the handling of HPL

Advice for protection against explosions and fires
Not applicable

Storage
Store in a dry well-ventilated area. Keep away from strong chemicals, solvents and excessive heat. Prolonged or extreme heat can cause damage to the surface. Trace amounts of formaldehyde may be released when laminate is shipped or stored.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

OSHA PEL
— 15mg/m³ Total Dust
— 5mg/m³ Respirable

ACGIH
— TWA 10mg/m³

Engineering Controls
Provide adequate ventilation to maintain exposure levels below applicable limits. The use of local exhaust ventilation is recommended during fabrication work. Dust generated is a Class ST-1 dust and precautions recommended by NFPA-68 should be followed.

Eye/face Protection
Wear safety glasses when sawing, sanding, drilling or routing.

Skin Protection
Wear appropriate gloves when installing, transporting, sawing, cutting, drilling, routing or handling uninstalled pieces.

Foot Protection
No special protection required.

Respiratory Protection
Where airborne concentrations of dust are expected to exceed the allowable exposures, a NIOSH-approved respirator should be worn, chosen based on the form and concentration of the contaminant. Respirator usage must be in accordance with the OSHA Respiratory Protection Standard, 29 CFR 1910.134

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State — Solid Decorative sheet product
Color — According to product specification
Odor — None
PH value— Not applicable
Melting point/ Melting range— Not applicable
Boiling point / Boiling range— Not applicable
Ignition temperature— Approx. 400 ° C
Decomposition Temperature — Not applicable
Auto flammability — The product itself doesn't flash
Danger of explosion — Not applicable
Calorific power — 18-20 MJ / Kg
Solubility — Not soluble
Volatile Organic Compound (VOC) content, % — VOC release is extremely law
Density — ≥ 1,35 g/cm3

10. STABILITY AND REACTIVITY

Stability
Stable

Conditions to Avoid
Avoid exposing to oxidizers, strong chemicals, alkaline solutions and solvents.

Incompatible Materials
Avoid strong acids and alkaline solutions which will damage the surface appearance of the material.

If spills occur, remove immediately from the material.

Hazardous Decomposition Products
Thermal decomposition product may include various oxides of carbon and nitrogen may be released.

Hazardous Polymerization
Will not occur

11. TOXICOLOGICAL INFORMATION

Laminates are considered inert articles. No toxic effects are expected to animals and humans from normal use or disposal.

Acute effects
Oral, Dermal, Inhalation: Solid article, not expected to be toxic

Chronic effects
Mutagenicity, Carcinogenicity, Reproductive toxicity: No data for product.

12. ECOLOGICAL INFORMATION

Laminates are considered inert articles.
No adverse environmental toxic effects are expected from normal use or disposal.

Eco toxicity
No data for product. Not expected to be eco toxic.

BOD5 and COD
No data for product.

Biodegradable / OECD
No data for product

Mobility
No data for product

Toxicity of the Products of Biodegradation
No data for product

Special Remarks on the Products of Biodegradation
Not Applicable

13. DISPOSAL CONSIDERATIONS

Material is non-hazardous and no special treatment is required for disposal.

Dispose of in accordance with Federal, State, and local regulations.

Energy can be valued in authorized incinerators.

14. TRANSPORT INFORMATION

Restrictions
None known.

DOT Requirements
Not a DOT controlled material (United States).

ADR Requirements
Not an ADR controlled material (Europe).

IMDG Requirements
Not an IMDG controlled material.

IATA Requirements
Not an IATA controlled material.

Marine Pollutant
Not expected to be a marine pollutant.

15. REGULATORY INFORMATION

Regulations / legislation specific for the substance or mixture on health, safety and environment

The HPL are classified as non-hazardous product.

The HPL comply with the requirements of European Standard EN 438 and American Standard NEMA LD3

16. OTHER INFORMATION

Acronyms

ADR	Agreement on Dangerous Goods by Road (Europe)
ACGIH	American Conference of Governmental Industrial Hygienists
ASTM	American Society for Testing and Materials
BOD5	Biological Oxygen Demand in 5 days
CAS	Chemical Abstracts Service Registry Number
DOT	Department of Transportation
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Agency (USA)
NIOSH	National Institute of Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
Mg/m³	Milligrams per Cubic Meter of Air

NOTICE TO READER

To the best of our knowledge, the information contained herein is accurate and have been compiled from sources believed to be accurate. All information contained herein is offered for your consideration, information, investigation and verification. However, neither the above named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.