

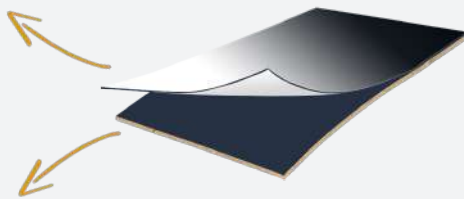
## PURTFLEX MOULDINGS OFFERED BY TAFISA

Tafisa is proud to partner with Moulure Transform (Alma, Quebec) to offer you PurTflex door and PurTflex accessory mouldings perfectly matched with its TFL panels from the Karisma collection and the all new Lummia – Perfect Matt lacquering technology.

### WHAT IS PURTFLEX TECHNOLOGY?

PurTflex is a breakthrough coated film technology for moulding, designed and developed by Moulures Transform. What makes PurTflex so leading edge is its unmatched scratch resistance and flexibility. Developed using a revolutionary technology, the process involves extruding a thin layer of polyurethane (PUR) covered with a multi-layered UV lacquer coating onto a polyurethane-treated decorative paper.

Polyurethane (PUR) layer with UV-cured lacquer



Decorative paper (solid colour or pattern) infused with PUR

The results are striking, enabling the film to conform to the angles of the mouldings. Completely foldable, the product leaves no white creases or cracks. Thanks to its unique technology, the PurTflex coating delivers unprecedented evenness and precision, and an exceptionally high-quality and durable finish.

## CHARACTERISTIC

## PUR FLEX



Easy maintenance



Heat resistant



Highly scratch resistant



UV light resistant

## BENEFITS OF PURTFLEX PRODUCTS

### Perfect Match

With PurTflex, it is possible to use the same decorative papers as those used for the manufacture of TFL products (melamine). Because the polyurethane and lacquer involved in this process are pigmented, the mouldings and panels can be perfectly matched.

### Economical

Due to its outstanding durability and strength, under normal use, PurTflex will retain its original appearance and therefore offers excellent value for money.

### Versatile

PurTflex mouldings are suitable for any interior design as well as a multitude of applications, including suspended ceilings, interior doors, cabinet doors and any other decorative uses.

### Resistance

Thanks to its UV lacquer protective layers, PurTflex is extremely resistant. In abrasion tests, the PurTflex coating remained fully intact after hundreds of testing cycles.

### Flexibility

Since the papers used are coated with highly-flexible polyurethane lacquer, providing durability, PurTflex is very resistant to impact. Easily pliable, the coated film can conform to any shape, even mouldings with sharp radius, without any cracks or creases.

### Available Products

PurTflex mouldings are matched with Tafisa products from the Karisma and Lummia – Perfect Matt collections.

**LUMMIA™** **karisma**  
PERFECT MATT

For any further information please contact your Tafisa representative.



### TafiPan

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#### Section 1. Identification

**Common name:** TafiPan

**Product Code:** N/A

**Synonym:** Phase 2 standard CARB particle paneling, particle paneling, agglomerated paneling, rough paneling.

**Material uses:** Furniture, construction and lamination

**Supplier / Manufacturer:**

**Tafisa**

4660 rue Villeneuve

Lac-Mégantic

Québec, Canada, G6B 2C3

Phone: 819-583-2930

**In case of emergency:**

**(819) 583-3014 (ext 333) - Security 24h**

**(819) 583 2930 – Front desk 8h to 17h**

**Or call your local Emergency Health Services Center.**

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#### Section 2. Hazards identifications

**Classification:**



Oxidizing Solid, Category 3

Combustible dust

Eye irritation, Category 2A

**Signal word:** Warning

**Hazard statements:**

H272: May intensify fire; oxidizer.

H319: Causes serious eye irritation.

**Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep/Store away from clothing and combustible materials.

P264: Wash exposed and/or contaminated area thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

P370+P378: In case of fire: Use (see section 5) to extinguish.

P501: Dispose of contents / container by a local waste disposal company according to regional regulations.

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### Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Wood (woody fibres)	N/A	80 - 100
Ammonium nitrate	6484-52-2	0.1 - 15
Formaldehyde	50-00-0	<0.1

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### Section 4. First aid measures

**Description of first aid if required:**

In solid form, classification, health hazards and first aid measures are most unlikely. In case of fine particles and dust from secondary transformation exposure, apply the following:

**Eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes.

**Skin contact:**

Wash with plenty of water and soap.

**Inhalation:**

Bring the conscious victim to fresh air.

**Ingestion:**

Do NOT induce vomiting.

**Indication of immediate medical attention and special treatment needed, if necessary:**

Treat symptomatically

**Most important acute symptoms and effects:**

Causes serious eye irritation.

**Most important delayed symptoms and effects:**

No known chronic effects or symptoms.

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### Section 5. Firefighting measures

**Flammability of the product:**

May intensify fire; oxidizer.

**Flash point:**

N/A

**Auto-ignition temperature:**

200°C / 392°F - 280°C / 536°F (variable)

**Products of combustion:**

Carbon oxides, nitrogen oxides

**Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus and appropriate protective clothing.

**Suitable extinguishing media:**

Water spray, Carbon dioxide, Dry Chemical, Dry sand.

**Specific hazard arising from the chemical:**

Product base is wood fibres. Product is combustible. It will burn if involved in a fire. Wood dusts may form an explosive mix with air in the right circumstances and concentrations.

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## Section 6. Accidental release measures

Product poses no accidental spill hazards.

### Personal precautions, protective equipment and emergency procedures:

**For non emergency personnel:** Evacuate the area.

**For emergency personnel:** Wear appropriate protective equipment (see section 8)

### Environmental precautions:

Not applicable

### Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

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## Section 7. Handling and storage

### Precautions in Handling:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

### Precautions in Storage:

Keep container tightly closed in a cool and well-ventilated place. It must be stored in a place where the ambient temperature and humidity are close to the values at which the product will be used.

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## Section 8. Exposure Controls, Personal Protections

### Control parameters:

Component	CAS	Value	Control parameters	Basis
Wood (woody fibres)	N/A	TWA	5.0 mg/m <sup>3</sup>	Québec RQMT
		TWA	15.0 mg/m <sup>3</sup>	OSHA
		TWA	5.0 mg/m <sup>3</sup> (inhalable fraction)	OSHA
Formaldehyde	50-00-0	Ceiling	3 mg/m <sup>3</sup>	CNESST
		STEL	2 ppm	OSHA
		TWA	0.75 ppm	OSHA
		Ceiling	0.3 ppm	ACGIH

### Engineering controls:

Ensure adequate ventilation and a good air outlet in order to keep contaminant concentrations below the permitted exposure limits. It is essential to consider the nature and the dangerousness (explosiveness) of wood dust in the process of selecting control systems.

### Personal protective equipment:

**Eyes:** Wear safety glasses with side shields.

**Skin/body:** Wear standard work clothes to prevent abrasion.

**Respiratory:** If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

**Hands:** Wear work gloves to avoid cuts, splinters or abrasions.

**Other:** An emergency eye and body wash must be available on site.

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## Section 9. Physical and chemical properties

**Physical state:** Solid

**Color:** Variable depending on printed paper

**Odour:** Variable according to the type of wood

**Melting point/Freezing point:** Data not available

**Boiling point:** Data not available

**Appearance:** Panels

**Flash point:** Data not available

**Auto-ignition temperature:** 200°C / 392°F - 280°C / 536°F (variable)

**pH:** Data not available

**Solubility:** Insoluble

**Density:** Data not available

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## Section 10. Stability and reactivity

**Chemical reactivity:** Stable under recommended storage conditions.

**Conditions to avoid:** Open flames, high temperatures, excessive humidity

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides

## Section 11. Toxicological information

**Acute toxicity:**

Component	CAS	Value
Ammonium nitrate	6484-52-2	DL <sub>50</sub> Oral: Rat = 2950 mg/kg DL <sub>50</sub> Cutaneous: Rat > 5000 mg/kg CL <sub>50</sub> Inhalation: Rat - = 88.8 mg/L 4h
Formaldehyde	50-00-0	CL <sub>50</sub> Inhalation: Rat - = 177 ppm 4h

**Skin corrosion/irritation:**

Formaldehyde: May cause skin irritation

**Serious eye damage/irritation:**

Ammonium nitrate: Causes serious eye irritation.

Formaldehyde: Causes serious eye irritation

**Respiratory or skin sensitisation:**

Not applicable

**Gem cell mutagenicity:**

Formaldehyde: Suspected of causing genetic defects

**Carcinogenicity:**

Formaldehyde: May cause cancer

**Reproductive toxicity:**

Not applicable

**STOT- Single exposure:**

Formaldehyde: May cause respiratory irritation

**STOT- repeated exposure:**

Not applicable

**Aspiration hazard:**

Not applicable

**Information on likely route of exposure:**

Not applicable

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**Section 12. Ecological information****Ecological data for aquatic environments:**

Component	CAS	Value
Ammonium nitrate	6484-52-2	CL <sub>50</sub> - Carp 447 mg/L - 48h CE <sub>50</sub> - Water flea 490 mg/L - 48h

**Persistence and degradability:**

Data not available

**Bioaccumulative potential:**

Data not available

**Mobility in soil:**

Data not available

**Other adverse effects:**

Data not available

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**Section 13. Disposal considerations****Waste disposal:**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers.

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**Section 14. Transportation information**

No TDG/DOT/IMDG/IATA Classification

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**Section 15. Regulatory information****NFPA Classification:**

Health: 0  
Flammable: 0  
Reactivity: 0  
Specials conditions: 0

**Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous**

**U.S. Federal regulations**

**California proposition 65 requirements:** Piercing, sawing, sanding or shaping wood products creates wood dusts, a substance recognized for causing cancer according to the state of California. Avoid inhaling wood dusts or use a dust mask or other personal protection measures.

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## Section 16. Additional information

**Date of issue:**

2020-04-02

**Version:**

6.00

**Elaborated by:**

Toxyscan inc.

**Notice to reader:**

To the best of our knowledge, the information contained herein is accurate. However, neither Toxyscan inc., nor the supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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.

**Références:**

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *Ghs (rev.8) (2019) globally harmonized system of classification and labeling of chemicals - United Nations*



### TafiPan EVOLO

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#### Section 1. Identification

**Common name:** TafiPan EVOLO

**Product Code:** N/A

**Synonym:** CARB ULEF particle paneling, particle paneling, agglomerated paneling, rough paneling.

**Material uses:** Furniture, construction and lamination

**Supplier / Manufacturer:**

**Tafisa**

4660 rue Villeneuve

Lac-Mégantic

Québec, Canada, G6B 2C3

Phone: 819-583-2930

**In case of emergency:**

**(819) 583-3014 (ext 333) - Security 24h**

**(819) 583 2930 – Front desk 8h to 17h**

**Or call your local Emergency Health Services Center.**

---

#### Section 2. Hazards identifications

**Classification:**



Oxidizing Solid, Category 3

Combustible dust

Eye irritation, Category 2A

**Signal word:** Warning

**Hazard statements:**

H272: May intensify fire; oxidizer.

H319: Causes serious eye irritation.

**Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep/Store away from clothing and combustible materials.

P264: Wash exposed and/or contaminated area thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

P370+P378: In case of fire: Use (see section 5) to extinguish.

P501: Dispose of contents / container by a local waste disposal company according to regional regulations.

---

### Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Wood (woody fibres)	N/A	80 - 100
Ammonium nitrate	6484-52-2	0.1 - 15
Formaldehyde	50-00-0	<0.1

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### Section 4. First aid measures

**Description of first aid if required:**

In solid form, classification, health hazards and first aid measures are most unlikely. In case of fine particles and dust from secondary transformation exposure, apply the following:

**Eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes.

**Skin contact:**

Wash with plenty of water and soap.

**Inhalation:**

Bring the conscious victim to fresh air.

**Ingestion:**

Do NOT induce vomiting.

**Indication of immediate medical attention and special treatment needed, if necessary:**

Treat symptomatically

**Most important acute symptoms and effects:**

Causes serious eye irritation.

**Most important delayed symptoms and effects:**

No known chronic effects or symptoms.

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### Section 5. Firefighting measures

**Flammability of the product:**

May intensify fire; oxidizer.

**Flash point:**

N/A

**Auto-ignition temperature:**

200°C / 392°F - 280°C / 536°F (variable)

**Products of combustion:**

Carbon oxides, nitrogen oxides

**Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus and appropriate protective clothing.

**Suitable extinguishing media:**

Water spray, Carbon dioxide, Dry Chemical, Dry sand.

**Specific hazard arising from the chemical:**

Product base is wood fibres. Product is combustible. It will burn if involved in a fire. Wood dusts may form an explosive mix with air in the right circumstances and concentrations.

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## Section 6. Accidental release measures

Product poses no accidental spill hazards.

### Personal precautions, protective equipment and emergency procedures:

**For non emergency personnel:** Evacuate the area.

**For emergency personnel:** Wear appropriate protective equipment (see section 8)

### Environmental precautions:

Not applicable

### Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

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## Section 7. Handling and storage

### Precautions in Handling:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

### Precautions in Storage:

Keep container tightly closed in a cool and well-ventilated place. It must be stored in a place where the ambient temperature and humidity are close to the values at which the product will be used.

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## Section 8. Exposure Controls, Personal Protections

### Control parameters:

Component	CAS	Value	Control parameters	Basis
Wood (woody fibres)	N/A	TWA	5.0 mg/m <sup>3</sup>	Québec RQMT
		TWA	15.0 mg/m <sup>3</sup>	OSHA
		TWA	5.0 mg/m <sup>3</sup> (inhalable fraction)	OSHA
Formaldehyde	50-00-0	Ceiling	3 mg/m <sup>3</sup>	CNESST
		STEL	2 ppm	OSHA
		TWA	0.75 ppm	OSHA
		Ceiling	0.3 ppm	ACGIH

### Engineering controls:

Ensure adequate ventilation and a good air outlet in order to keep contaminant concentrations below the permitted exposure limits. It is essential to consider the nature and the dangerousness (explosiveness) of wood dust in the process of selecting control systems.

### Personal protective equipment:

**Eyes:** Wear safety glasses with side shields.

**Skin/body:** Wear standard work clothes to prevent abrasion.

**Respiratory:** If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

**Hands:** Wear work gloves to avoid cuts, splinters or abrasions.

**Other:** An emergency eye and body wash must be available on site.

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## Section 9. Physical and chemical properties

**Physical state:** Solid

**Color:** Variable depending on printed paper

**Odour:** Variable according to the type of wood

**Melting point/Freezing point:** Data not available

**Boiling point:** Data not available

**Appearance:** Panels

**Flash point:** Data not available

**Auto-ignition temperature:** 200°C / 392°F - 280°C / 536°F (variable)

**pH:** Data not available

**Solubility:** Insoluble

**Density:** Data not available

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## Section 10. Stability and reactivity

**Chemical reactivity:** Stable under recommended storage conditions.

**Conditions to avoid:** Open flames, high temperatures, excessive humidity

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides

## Section 11. Toxicological information

**Acute toxicity:**

Component	CAS	Value
Ammonium nitrate	6484-52-2	DL <sub>50</sub> Oral: Rat = 2950 mg/kg DL <sub>50</sub> Cutaneous: Rat > 5000 mg/kg CL <sub>50</sub> Inhalation: Rat - = 88.8 mg/L 4h
Formaldehyde	50-00-0	CL <sub>50</sub> Inhalation: Rat - = 177 ppm 4h

**Skin corrosion/irritation:**

Formaldehyde: May cause skin irritation

**Serious eye damage/irritation:**

Ammonium nitrate: Causes serious eye irritation.

Formaldehyde: Causes serious eye irritation

**Respiratory or skin sensitisation:**

Not applicable

**Gem cell mutagenicity:**

Formaldehyde: Suspected of causing genetic defects

**Carcinogenicity:**

Formaldehyde: May cause cancer

**Reproductive toxicity:**

Not applicable

**STOT- Single exposure:**

Formaldehyde: May cause respiratory irritation

**STOT- repeated exposure:**

Not applicable

**Aspiration hazard:**

Not applicable

**Information on likely route of exposure:**

Not applicable

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**Section 12. Ecological information****Ecological data for aquatic environments:**

Component	CAS	Value
Ammonium nitrate	6484-52-2	CL <sub>50</sub> - Carp 447 mg/L - 48h CE <sub>50</sub> - Water flea 490 mg/L - 48h

**Persistence and degradability:**

Data not available

**Bioaccumulative potential:**

Data not available

**Mobility in soil:**

Data not available

**Other adverse effects:**

Data not available

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**Section 13. Disposal considerations****Waste disposal:**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers.

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**Section 14. Transportation information**

No TDG/DOT/IMDG/IATA Classification

---

**Section 15. Regulatory information****NFPA Classification:**

Health: 0  
Flammable: 0  
Reactivity: 0  
Specials conditions: 0

**Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous**

**U.S. Federal regulations**

**California proposition 65 requirements:** Piercing, sawing, sanding or shaping wood products creates wood dusts, a substance recognized for causing cancer according to the state of California. Avoid inhaling wood dusts or use a dust mask or other personal protection measures.

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- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
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- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *Ghs (rev.8) (2019) globally harmonized system of classification and labeling of chemicals - United Nations*

### TafiLam

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#### Section 1. Identification

**Common name:** TafiLam

**Product Code:** N/A

**Synonym:** Phase 2 standard CARB particle paneling. Laminated plastic impregnated with amino resins papers. Melamine board. Particle board laminated. Decorative panel.

**Material uses:** Furniture, finishing and decorative coating

**Supplier / Manufacturer:**

**Tafisa**

4660 rue Villeneuve

Lac-Mégantic

Québec, Canada, G6B 2C3

Phone: 819-583-2930

**In case of emergency:**

**(819) 583-3014 (ext 333) - Security 24h**

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**Or call your local Emergency Health Services Center.**

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#### Section 2. Hazards identifications

**Classification:**



Oxidizing Solid, Category 3

Combustible dust

Eye irritation, Category 2A

**Signal word:** Warning

**Hazard statements:**

H272: May intensify fire; oxidizer.

H319: Causes serious eye irritation.

**Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep/Store away from clothing and combustible materials.

P264: Wash exposed and/or contaminated area thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

P370+P378: In case of fire: Use (see section 5) to extinguish.

P501: Dispose of contents / container by a local waste disposal company according to regional regulations.

---

### Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Wood (woody fibres)	N/A	80 - 100
Ammonium nitrate	6484-52-2	0.1 - 15
Formaldehyde	50-00-0	<0.1

---

### Section 4. First aid measures

**Description of first aid if required:**

In solid form, classification, health hazards and first aid measures are most unlikely. In case of fine particles and dust from secondary transformation exposure, apply the following:

**Eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes.

**Skin contact:**

Wash with plenty of water and soap.

**Inhalation:**

Bring the conscious victim to fresh air.

**Ingestion:**

Do NOT induce vomiting.

**Indication of immediate medical attention and special treatment needed, if necessary:**

Treat symptomatically

**Most important acute symptoms and effects:**

Causes serious eye irritation.

**Most important delayed symptoms and effects:**

No known chronic effects or symptoms.

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### Section 5. Firefighting measures

**Flammability of the product:**

May intensify fire; oxidizer.

**Flash point:**

N/A

**Auto-ignition temperature:**

200°C / 392°F - 280°C / 536°F (variable)

**Products of combustion:**

Carbon oxides, nitrogen oxides

**Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus and appropriate protective clothing.

**Suitable extinguishing media:**

Water spray, Carbon dioxide, Dry Chemical, Dry sand.

**Specific hazard arising from the chemical:**

Product base is wood fibres. Product is combustible. It will burn if involved in a fire. Wood dusts may form an explosive mix with air in the right circumstances and concentrations.

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## Section 6. Accidental release measures

Product poses no accidental spill hazards.

### Personal precautions, protective equipment and emergency procedures:

**For non emergency personnel:** Evacuate the area.

**For emergency personnel:** Wear appropriate protective equipment (see section 8)

### Environmental precautions:

Not applicable

### Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

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## Section 7. Handling and storage

### Precautions in Handling:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

### Precautions in Storage:

Keep container tightly closed in a cool and well-ventilated place. It must be stored in a place where the ambient temperature and humidity are close to the values at which the product will be used.

---

## Section 8. Exposure Controls, Personal Protections

### Control parameters:

Component	CAS	Value	Control parameters	Basis
Wood (woody fibres)	N/A	TWA	5.0 mg/m <sup>3</sup>	Québec RQMT
		TWA	15.0 mg/m <sup>3</sup>	OSHA
		TWA	5.0 mg/m <sup>3</sup> (inhalable fraction)	OSHA
Formaldehyde	50-00-0	Ceiling	3 mg/m <sup>3</sup>	CNESST
		STEL	2 ppm	OSHA
		TWA	0.75 ppm	OSHA
		Ceiling	0.3 ppm	ACGIH

### Engineering controls:

Ensure adequate ventilation and a good air outlet in order to keep contaminant concentrations below the permitted exposure limits. It is essential to consider the nature and the dangerousness (explosiveness) of wood dust in the process of selecting control systems.

### Personal protective equipment:

**Eyes:** Wear safety glasses with side shields.

**Skin/body:** Wear standard work clothes to prevent abrasion.

**Respiratory:** If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

**Hands:** Wear work gloves to avoid cuts, splinters or abrasions.

**Other:** An emergency eye and body wash must be available on site.

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## Section 9. Physical and chemical properties

**Physical state:** Solid

**Color:** Variable depending on printed paper

**Odour:** Variable according to the type of wood

**Melting point/Freezing point:** Data not available

**Boiling point:** Data not available

**Appearance:** Panels

**Flash point:** Data not available

**Auto-ignition temperature:** 200°C / 392°F - 280°C / 536°F (variable)

**pH:** Data not available

**Solubility:** Insoluble

**Density:** Data not available

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## Section 10. Stability and reactivity

**Chemical reactivity:** Stable under recommended storage conditions.

**Conditions to avoid:** Open flames, high temperatures, excessive humidity

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides

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**Acute toxicity:**

Component	CAS	Value
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Formaldehyde	50-00-0	CL <sub>50</sub> Inhalation: Rat - = 177 ppm 4h

**Skin corrosion/irritation:**

Formaldehyde: May cause skin irritation

**Serious eye damage/irritation:**

Ammonium nitrate: Causes serious eye irritation.

Formaldehyde: Causes serious eye irritation

**Respiratory or skin sensitisation:**

Not applicable

**Gem cell mutagenicity:**

Formaldehyde: Suspected of causing genetic defects

**Carcinogenicity:**

Formaldehyde: May cause cancer

**Reproductive toxicity:**

Not applicable

**STOT- Single exposure:**

Formaldehyde: May cause respiratory irritation

**STOT- repeated exposure:**

Not applicable

**Aspiration hazard:**

Not applicable

**Information on likely route of exposure:**

Not applicable

---

**Section 12. Ecological information****Ecological data for aquatic environments:**

Component	CAS	Value
Ammonium nitrate	6484-52-2	CL <sub>50</sub> - Carp 447 mg/L - 48h CE <sub>50</sub> - Water flea 490 mg/L - 48h

**Persistence and degradability:**

Data not available

**Bioaccumulative potential:**

Data not available

**Mobility in soil:**

Data not available

**Other adverse effects:**

Data not available

---

**Section 13. Disposal considerations****Waste disposal:**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers.

---

**Section 14. Transportation information**

No TDG/DOT/IMDG/IATA Classification

---

**Section 15. Regulatory information****NFPA Classification:**

Health: 0  
Flammable: 0  
Reactivity: 0  
Specials conditions: 0

**Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous**

**U.S. Federal regulations**

**California proposition 65 requirements:** Piercing, sawing, sanding or shaping wood products creates wood dusts, a substance recognized for causing cancer according to the state of California. Avoid inhaling wood dusts or use a dust mask or other personal protection measures.

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## Section 16. Additional information

**Date of issue:**

2020-04-02

**Version:**

6.00

**Elaborated by:**

Toxyscan inc.

**Notice to reader:**

To the best of our knowledge, the information contained herein is accurate. However, neither Toxyscan inc., nor the supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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.

**Références:**

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *Ghs (rev.8) (2019) globally harmonized system of classification and labeling of chemicals - United Nations*

### TafiLam EVOLO

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#### Section 1. Identification

**Common name:** TafiLam EVOLO

**Product Code:** N/A

**Synonym:** CARB ULEF particle paneling. Laminated plastic impregnated with amino resins papers. Melamine board. Particle board laminated. Decorative panel.

**Material uses:** Furniture, finishing and decorative coating

**Supplier / Manufacturer:**

**Tafisa**

4660 rue Villeneuve

Lac-Mégantic

Québec, Canada, G6B 2C3

Phone: 819-583-2930

**In case of emergency:**

**(819) 583-3014 (ext 333) - Security 24h**

**(819) 583 2930 – Front desk 8h to 17h**

**Or call your local Emergency Health Services Center.**

---

#### Section 2. Hazards identifications

**Classification:**



Oxidizing Solid, Category 3

Combustible dust

Eye irritation, Category 2A

**Signal word:** Warning

**Hazard statements:**

H272: May intensify fire; oxidizer.

H319: Causes serious eye irritation.

**Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep/Store away from clothing and combustible materials.

P264: Wash exposed and/or contaminated area thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

P370+P378: In case of fire: Use (see section 5) to extinguish.

P501: Dispose of contents / container by a local waste disposal company according to regional regulations.

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### Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Wood (woody fibres)	N/A	80 - 100
Ammonium nitrate	6484-52-2	0.1 - 15
Formaldehyde	50-00-0	<0.1

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### Section 4. First aid measures

**Description of first aid if required:**

In solid form, classification, health hazards and first aid measures are most unlikely. In case of fine particles and dust from secondary transformation exposure, apply the following:

**Eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes.

**Skin contact:**

Wash with plenty of water and soap.

**Inhalation:**

Bring the conscious victim to fresh air.

**Ingestion:**

Do NOT induce vomiting.

**Indication of immediate medical attention and special treatment needed, if necessary:**

Treat symptomatically

**Most important acute symptoms and effects:**

Causes serious eye irritation.

**Most important delayed symptoms and effects:**

No known chronic effects or symptoms.

---

### Section 5. Firefighting measures

**Flammability of the product:**

May intensify fire; oxidizer.

**Flash point:**

N/A

**Auto-ignition temperature:**

200°C / 392°F - 280°C / 536°F (variable)

**Products of combustion:**

Carbon oxides, nitrogen oxides

**Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus and appropriate protective clothing.

**Suitable extinguishing media:**

Water spray, Carbon dioxide, Dry Chemical, Dry sand.

**Specific hazard arising from the chemical:**

Product base is wood fibres. Product is combustible. It will burn if involved in a fire. Wood dusts may form an explosive mix with air in the right circumstances and concentrations.

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## Section 6. Accidental release measures

Product poses no accidental spill hazards.

### Personal precautions, protective equipment and emergency procedures:

**For non emergency personnel:** Evacuate the area.

**For emergency personnel:** Wear appropriate protective equipment (see section 8)

### Environmental precautions:

Not applicable

### Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

---

## Section 7. Handling and storage

### Precautions in Handling:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

### Precautions in Storage:

Keep container tightly closed in a cool and well-ventilated place. It must be stored in a place where the ambient temperature and humidity are close to the values at which the product will be used.

---

## Section 8. Exposure Controls, Personal Protections

### Control parameters:

Component	CAS	Value	Control parameters	Basis
Wood (woody fibres)	N/A	TWA	5.0 mg/m <sup>3</sup>	Québec RQMT
		TWA	15.0 mg/m <sup>3</sup>	OSHA
		TWA	5.0 mg/m <sup>3</sup> (inhalable fraction)	OSHA
Formaldehyde	50-00-0	Ceiling	3 mg/m <sup>3</sup>	CNESST
		STEL	2 ppm	OSHA
		TWA	0.75 ppm	OSHA
		Ceiling	0.3 ppm	ACGIH

### Engineering controls:

Ensure adequate ventilation and a good air outlet in order to keep contaminant concentrations below the permitted exposure limits. It is essential to consider the nature and the dangerousness (explosiveness) of wood dust in the process of selecting control systems.

### Personal protective equipment:

**Eyes:** Wear safety glasses with side shields.

**Skin/body:** Wear standard work clothes to prevent abrasion.

**Respiratory:** If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

**Hands:** Wear work gloves to avoid cuts, splinters or abrasions.

**Other:** An emergency eye and body wash must be available on site.

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## Section 9. Physical and chemical properties

**Physical state:** Solid

**Color:** Variable depending on printed paper

**Odour:** Variable according to the type of wood

**Melting point/Freezing point:** Data not available

**Boiling point:** Data not available

**Appearance:** Panels

**Flash point:** Data not available

**Auto-ignition temperature:** 200°C / 392°F - 280°C / 536°F (variable)

**pH:** Data not available

**Solubility:** Insoluble

**Density:** Data not available

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## Section 10. Stability and reactivity

**Chemical reactivity:** Stable under recommended storage conditions.

**Conditions to avoid:** Open flames, high temperatures, excessive humidity

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides

## Section 11. Toxicological information

**Acute toxicity:**

Component	CAS	Value
Ammonium nitrate	6484-52-2	DL <sub>50</sub> Oral: Rat = 2950 mg/kg DL <sub>50</sub> Cutaneous: Rat > 5000 mg/kg CL <sub>50</sub> Inhalation: Rat - = 88.8 mg/L 4h
Formaldehyde	50-00-0	CL <sub>50</sub> Inhalation: Rat - = 177 ppm 4h

**Skin corrosion/irritation:**

Formaldehyde: May cause skin irritation

**Serious eye damage/irritation:**

Ammonium nitrate: Causes serious eye irritation.

Formaldehyde: Causes serious eye irritation

**Respiratory or skin sensitisation:**

Not applicable

**Gem cell mutagenicity:**

Formaldehyde: Suspected of causing genetic defects

**Carcinogenicity:**

Formaldehyde: May cause cancer

**Reproductive toxicity:**

Not applicable

**STOT- Single exposure:**

Formaldehyde: May cause respiratory irritation



**STOT- repeated exposure:**

Not applicable

**Aspiration hazard:**

Not applicable

**Information on likely route of exposure:**

Not applicable

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**Section 12. Ecological information****Ecological data for aquatic environments:**

Component	CAS	Value
Ammonium nitrate	6484-52-2	CL <sub>50</sub> - Carp 447 mg/L - 48h CE <sub>50</sub> - Water flea 490 mg/L - 48h

**Persistence and degradability:**

Data not available

**Bioaccumulative potential:**

Data not available

**Mobility in soil:**

Data not available

**Other adverse effects:**

Data not available

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**Section 13. Disposal considerations****Waste disposal:**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers.

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**Section 14. Transportation information**

No TDG/DOT/IMDG/IATA Classification

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**Section 15. Regulatory information****NFPA Classification:**

Health: 0  
Flammable: 0  
Reactivity: 0  
Specials conditions: 0

**Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous**

**U.S. Federal regulations**

**California proposition 65 requirements:** Piercing, sawing, sanding or shaping wood products creates wood dusts, a substance recognized for causing cancer according to the state of California. Avoid inhaling wood dusts or use a dust mask or other personal protection measures.

---

## Section 16. Additional information

**Date of issue:**

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**Elaborated by:**

Toxyscan inc.

**Notice to reader:**

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**Références:**

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *Ghs (rev.8) (2019) globally harmonized system of classification and labeling of chemicals - United Nations*

## **SURFORMA<sup>®</sup> Laminates**

High Pressure Decorative Laminates Fire Retardant

<b>Distributor</b>	<b>Manufacturer</b>
Tafisa Canada Inc 4660 Rue Villeneuve Lac-Mégantic, QC G6B 2C3 Canada	Sonae - Indústria de Revestimentos, S.A. Lugar do Espido, Via Norte 4470-177 Maia Portugal

### **Product description**

SURFORMA<sup>®</sup> decorative laminates are a high pressure thermosetting plastic surfacing material, consisting of fibrous multilayer core material (kraft paper) impregnated with thermosetting phenolic resin, covered by a fibrous material decorative layer impregnated with thermosetting melamine resin. The layers are bonded together by an high pressure and temperature process.

### **Decorative High Pressure Laminates Fire Retardant for horizontal and vertical applications**

HPL, a homogeneous and non-porous material, is highly resistant to wear, chemicals and stains under normal use and conditions. Available in FR grade, thickness 0.80 mm (0.032 in) the product is suitable for applications where fire retardant properties are required by building codes, i.e., elevator cabs, stairwells, public areas, and hospitals. Typical usages include wall paneling, doors, ceilings, partition systems and similar surfaces.

**Limitations:** Surforma fire rated laminates are non-postforming.

### Flame spread and smoke development

Grade	Flame Spread Rating CAN/ULC S-102	Smoke Development Classification CAN/ULC S-102	Flame Spread Index ASTM E84 (UL723)	Smoke Development Index ASTM E84 (UL723)
Fire Retardant*	20	25	15	25

\* *Laminate bonded to an inorganic substrate (GRC glass reinforced cement board)*

ASTM E84 (UL 723, NFPA 255) – Results Classification: Class 1 or Class A

### Surface Textures

SURFORMA® laminates are available in eight surface textures:

Series	Texture code	Texture name	Texture description	Gloss level at 60°
Sommet®	VA	VIVA	Synchronized texture - the true touch of wood, butternut pattern	5 - 10
	FE	FERIA	Synchronized texture - the true touch of wood, hickory pattern	4 - 9
	BV	BRAVA	Synchronized texture - the true touch of wood, teak pattern	5 - 10
Prélude®	OR	origen	Natural organic walnut grain	5 - 10
	AT	alto	Alternating Linear gloss-matte texture	6 - 11
	UR	urbania	Deeper wood-ticking texture	10 - 16
	IS	isola	Low gloss, smooth texture	13 - 19
	SN	smoothwood	Smooth, fine-grain veneer-like texture	10 - 16
	CR	crystalite	Traditional medium gloss grain texture	13 - 19

## Physical properties of Fire Retardant grade

SURFORMA® laminates meet or exceed all the requirements of the NEMA LD3 standard.

NEMA	Test Method	Grade / Units	NEMA Standard	Typical SURFORMA® Performance
3.3	Light Resistance	Rating ; Min.	Slight effect	No effect
3.4	Cleanability (cycles)	Rating; Max.	20	15
	Stain 1-10	Rating ; Min.	No effect	No effect
	Stain 11-15	Rating ; Min.	Moderate effect	Slight effect
3.5	Boiling water resistance	Rating ; Min.	Slight effect	No effect
3.6	High temperature resistance	Rating ; Min.	Slight effect	No effect
3.7	Scratch resistance	Linear Glass	to be determined	< 50 gr
		Diamond	to be determined	rating 3
3.8	Ball impact resistance	mm ; Min.	500	800
3.9	Dart impact	mm ; Min.	200	600
3.10	Radiant heat/coil	Sec ; Min.	80	120
	Radiant heat/strip	Sec ; Min.	to be determined	180
3.11	Dimensional change	% MD; Max.	0.7	0.4
		% CD; Max.	1.2	0.9
3.12	Dimensional stability	% MD; Max.	0.7	0.1
		% CD; Max.	1.2	0.6
3.13	Wear resistance	Cycles ; Min.	400	600

## Sheet size, thickness and weight

SURFORMA® laminates are available in the following standard offer:

System of measurement	Sheet size	Thickness	Weight
Metric	1,530x2,743 mm	0.80 ± 0.10 mm	4.70 kg per sheet
Imperial	5 x 9 ft	0.0310 ± 0.004 in	10.4 lb per sheet

## Standards and approvals

SURFORMA® laminates meet or exceed standard tests set by:

- The National Electrical Manufacturers Association “ANSI/NEMA LD-3:2005” for high pressure decorative laminates.  
The purpose of this Standards Publication is to provide standard test methods and performance for high-pressure decorative laminates. The compliance of SURFORMA® laminates was tested and validated by the Laboratory of North Carolina State University, a member of ANSI.
- Sonae - Indústria de Revestimentos, S.A is certified under the EN ISO 9001:2015 Quality Management System
- Sonae - Indústria de Revestimentos, S.A is certified under the EN ISO 14001:2004 Environmental Management System
- Sonae - Indústria de Revestimentos, S.A is certified under the OHSAS 18001:2007 Occupational Health and Safety Management System
- *The GREENGUARD Environmental institute has awarded its Indoor Air Quality Certification for Sonae - Indústria de Revestimentos, S.A. All Sonae - Indústria de Revestimentos, S.A laminate product types were tested under the stringent GREENGUARD Standard for low-emitting products. All GREENGUARD Indoor Air Quality Certified products ensure minimal impact on the indoor environmental. For a copy of certificate, visit the site [www.greenguard.org](http://www.greenguard.org)*

## FSC® Certification

All SURFORMA® colours in the Sommet® Series and several Prélude® colours are available for FSC® Mixed Credit.

## Antimicrobial activity and efficacy

SURFORMA® decorative laminates have a non-porous surface that does not promote bacterial growth. Tested according to the method ISO 22196:2011 and verification of the compliance with the Japanese criteria defined in JIS Z2801:2012 for antimicrobial activity and efficacy, our laminate surface exhibits strong biocidal properties, with a reduction of 99.9% of the tested bacteria (*Escherichia coli* ATCC 8739, *Staphylococcus aureus* ATCC 6538).

## RECOMMENDATIONS

**Transportation** – SURFORMA® laminates are a cured material and is chemically inert and are therefore classified as a non-hazardous product, thus not requiring any specific labelling. REACH classification does not apply.

**Storage** - SURFORMA® laminates should be stored so they are protected from moisture, humidity and direct sunlight. The laminates should preferably be stored face to face or decorative side facing up, flat in fully horizontal and level racks.

**Handling** - When handling or moving SURFORMA® decorative laminates it is important that the sheets are lifted above adjacent sheets to avoid damage that can occur if the sheets are pulled or slid against each other. For larger sizes, it is recommended that sheets are carried arched along the longitudinal axis to prevent sagging. Individual sheets can also be rolled up for easier handling (roll with the decorative face inwards, making sure to avoid any sideways sliding motion)

**Maintenance and Cleaning** - SURFORMA® laminates, with their durable, hygienic and waterproof surface, require no special maintenance. The surface can be cleaned with warm water followed by wiping with a paper towel or soft cloth. Persistent contamination can usually be eliminated with non-abrasive household cleaners. They are resistant to most solvents and chemicals used daily at home.

**Waste Disposal** - SURFORMA® laminates can be brought to controlled waste disposal sites according to current national and/or regional regulations. Burning is permitted in approved industrial incinerators. Each organization is subject to its own statutory and local laws.

## Specification form

Product shall be SURFORMA® Fire Retardant grade laminate:

**Surface:**

Code Number: \_\_\_\_\_ Color Name: \_\_\_\_\_

**Finish:**

Code: \_\_\_\_\_ Name: \_\_\_\_\_

**Size:**

\_\_\_\_\_



*This document makes no claim of completion in respect of the listing of the full details of standards referred to in the text.*

*All information is based on the current state of technical knowledge, but it does not constitute any form of liability. It is the personal responsibility of the user of the products described in this information leaflet to comply with the appropriate laws and regulations.*

*The company reserves the right to change this document without prior notification*

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All ® brands are registered trademarks of the respective owners.

All ™ brands are trademarks of the respective owners.

Tafisa® Canada and Sonae - Indústria de Revestimentos, S.A are subsidiaries of the Sonae Indústria Group.



# SURFORMA® Magnetic Laminates

High Pressure Magnetic Decorative Laminates

Distributor	Manufacturer
Tafisa Canada Inc 4660 Rue Villeneuve Lac-Mégantic, QC G6B 2C3 Canada	Sonae - Indústria de Revestimentos, S.A. Lugar do Espido, Via Norte 4470-177 Maia Portugal

## Product description

SURFORMA® Magnetic laminates, according to EN 438, are excellent materials for indoor surfaces and meet the stringent requirements for hygiene, fire resistance, humidity resistance, mechanical properties and valued with a magnetic property.

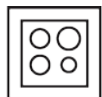
The foil incorporated under the surface is what gives the laminate its magnetic properties. SURFORMA® decorative laminates have a non-porous surface that does not promote bacterial growth. Tested according to the method ISO 22196:2011 and verification of the compliance with the Japanese criteria defined in JIS Z2801:2012 for antimicrobial activity and efficacy.

## Applications

SURFORMA® Magnetic laminates are intended for interior applications in horizontal and vertical surfaces where design, appearance, quality and durability are important features.

SURFORMA® Magnetic laminates can be written on with dry erase markers for whiteboards, making them an ideal choice for writing, drawing and displaying information.

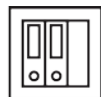
SURFORMA® Magnetic offers a wide variety of applications and uses in environments such a retail, education, commercial and residential.



KITCHENS



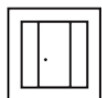
SPORTS &  
LEISURE



OFFICES &  
EDUCATION



RETAIL &  
EXHIBITIONS



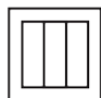
DOORS



RESTAURANTS &  
HOTELS



HEALTH &  
WELLNESS



FOR PANELING

## Properties



DURABILITY



SCRATCH  
RESISTANT



LOW  
EMISSIONS



TO WRITE ON  
WITH DRY  
ERASE MARKERS



ABRASION  
RESISTANT



EASY TO CLEAN



STAIN  
RESISTANT



ANTI-STATIC



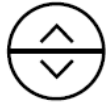
MAGNETIC



LIGHT  
RESISTANT



DIMENSIONAL  
STABILITY



VERSABILITY

## Recommendations

SURFORMA® laminates should be properly stored to be protected from moisture, humidity and direct sunlight. When handling or moving decorative laminates, it is important that the sheets be lifted above adjacent sheets to avoid damage that can occur if the sheets are pulled or slid against each other. For larger sizes, it is recommended that sheets be carried arched along the longitudinal axis to prevent sagging.

Surforma laminates require no special maintenance because of their durable, hygienic and waterproof surface. Their surface can be cleaned with warm water followed by wiping with a paper towel or soft cloth. Persistent contamination can usually be eliminated with non-abrasive household cleaners. They are resistant to most solvents and chemicals used daily at home. Because laminates are classified as non-hazardous, additional product description labels are not necessary. They are cured materials and chemically inert.

SURFORMA®'s laminates can be brought to control waste disposal sites according to current national and/or regional regulations. PB and MDF are recommended by SURFORMA as excellent substrates and should have a minimum thickness of 16 mm. To avoid distortion of sandwich panels, it is recommended to use Magnetic laminates of equal thickness on both sides. The most suitable adhesives are PVAc and UF. Always ask the guidance of glue manufacturers. On cutting process, the best results are achieved with fixed circular saws, with at least 60 teeth of 1,8 mm minimum thickness.

Caution: Magnetic laminates will generate sparks thus all dust collection equipment should be turned off to avoid a fire hazard. They cannot be trimmed like conventional laminates, as the cutters burn out very quickly due to the steel content of the laminate. For sizing, it is recommended that the laminate be bonded to a substrate and cut to size. The sawn edge can be smoothed with a metal file to remove any burrs.

## General Features

PROPERTIES	TEST METHOD	UNIT (max or min)		Magnetic
<b>Dimensional tolerance requirements (EN 438-2:2016, Clause n.º)</b>				
Thickness	EN 438-2:5	mm (max. variation)	1,0 mm	± 0.15
Length and with	EN 438-2:6	mm		+ 10 / - 0
Edges straightness	EN 438-2:7	mm/m (max. deviation)		1.5
Edges squareness	EN 438-2:8	mm/m (max. deviation)		1.5
Flatness	EN 438-2:9	mm/m (max. deviation)		100
<b>General Requirements</b>				
Resistance to surface wear	EN 438-2:10	Revolutions (min.)	Initial Point	150
Resistance to immersion in boiling water	EN 438-2:12	Appearance, rating (min.)	Gloss/other finishes	3 / 4
Resistance to water vapour	EN 438-2:14	Appearance, rating (min.)	Gloss/other finishes	3 / 4
Resistance to dry heat (160 °C)	EN 438-2:16	Appearance, rating (min.)	Gloss/other finishes	3 / 4
Dimensional stability at elevated temperature	EN 438-2:17	Cumulative dimensional change % (max.)	Longitudinal	0.75
			Transversal	1.25
Resistance to wet heat (100 °C)	EN 438-2:18	Appearance, rating (min.)	Gloss/other finishes	3 / 4
Resistance to impact by small diameter ball	EN 438-2:20	Spring force, N (min.)		20
Resistance to scratching	EN 438-2:25	Force (min.)	Smooth/ Textured finishes	2 / 3
Resistance to staining	EN 438-2:26	Appearance, rating (min.)	Group 1 e 2 / Group 3	5 / 4
Light fastness (xenon arc)	EN 438-2:27	Contrast	Grey scale rating	4 to 5
Density	EN ISO 1183-1	Density, g/cm <sup>3</sup> (min.)		> 2
Magnetic Intensity	Internal method	Magnetic force (min.)		7

SURFORMA® Magnetic is classified in accordance with EN 438 – Sheets based on thermosetting resins (Usually called Laminates) – Part 8: Classification and specifications for design laminates. The physical and mechanical properties vary depending on the substrate used. For more information about these properties, please refer to the corresponding Technical Data Sheet.

## Certifications

- Sonae - Indústria de Revestimentos, S.A is certified under the EN ISO 9001:2015 Quality Management System
- Sonae - Indústria de Revestimentos, S.A is certified under the EN ISO 14001:2004 Environmental Management System
- Sonae - Indústria de Revestimentos, S.A is certified under the OHSAS 18001:2007 Occupational Health and Safety Management System

The information given in this TDS is accurate at the time of publication (0519 EN).

The Company reserves the right to change specifications at any time without prior notice.



## SURFORMA<sup>®</sup> Laminates (HPL)

High Pressure Decorative Laminates Postforming grade

Distributor	Manufacturer
Tafisa Canada Inc 4660 Rue Villeneuve Lac-Mégantic, QC G6B 2C3 Canada	Sonae - Indústria de Revestimentos, S.A. Lugar do Espido, Via Norte 4470-177 Maia Portugal

### Product description

SURFORMA<sup>®</sup> decorative laminates (HPL) are a high pressure thermosetting plastic surfacing material, consisting of fibrous multilayer core material (kraft paper) impregnated with thermosetting phenolic resin, covered by a fibrous material decorative layer impregnated with thermosetting melamine resin. The layers are bonded together by a high pressure and temperature process.

### Decorative High Pressure Laminates for horizontal and vertical applications

HPL, a homogeneous and non-porous material, is highly resistant to wear, chemicals and stains under normal use and conditions. Available in postforming grade, thickness 0.80 mm (0.032 in) the product is suitable for most commercial, institutional and residential heavier duty applications. Typical usages include work surfaces, counters, table tops, cabinets, furniture, wall paneling, doors, ceilings, window sills and frames, partition systems and similar surfaces.

### Postforming features

This operation of forming decorative laminate into simple bends and shapes is done by uniformly heating the laminate to a temperature of approximately 163 °C (325 °F) and pressing or bending it into the required shape before cooling. This requires controlled conditions and equipment. Practically any shape consisting of simple bends can be fabricated. The laminates will typically postform to a minimum radius of 8 mm (0.315 in) measured on the outside bend. Substrates such as particleboard PB and MDF are the most appropriate.

## Surface Textures

SURFORMA® laminates are available in eight surface textures:

Series	Texture code	Texture name	Texture description	Gloss level at 60°
Sommet®	VA	VIVA	Synchronized texture - the true touch of wood, butternut pattern	5 - 10
	FE	FERIA	Synchronized texture - the true touch of wood, hickory pattern	4 - 9
	BV	BRAVA	Synchronized texture - the true touch of wood, teak pattern	5 - 10
Prélude®	OR	origen	Natural organic walnut grain	5 - 10
	AT	alto	Alternating Linear gloss-matte texture	6 - 11
	UR	urbania	Deeper wood-ticking texture	10 - 16
	IS	isola	Low gloss, smooth texture	13 - 19
	SN	smoothwood	Smooth, fine-grain veneer-like texture	10 - 16
	CR	crystalite	Traditional medium gloss grain texture	13 - 19

## Sheet size, thickness and weight

SURFORMA® laminates are available in the following standard offer:

System of measurement	Sheet size	Thickness	Weight
Metric	1,530x2,743 mm	0.80 ± 0.10 mm	4.70 kg per sheet
Imperial	5 x 9 ft	0.0310 ± 0.004 in	10.4 lb per sheet

## Physical properties of Postforming grade

SURFORMA® laminates meet or exceed all the requirements of the NEMA LD3 standard.

NEMA	Test Method	Grade / Units	NEMA Standard	Typical SURFORMA® Performance
3.3	Light Resistance	Rating ; Min.	Slight effect	No effect
3.4	Cleanability (cycles)	Rating; Max.	20	15
	Stain 1-10	Rating ; Min.	No effect	No effect
	Stain 11-15	Rating ; Min.	Moderate effect	Slight effect
3.5	Boiling water resistance	Rating ; Min.	Slight effect	No effect
3.6	High temperature resistance	Rating ; Min.	Slight effect	No effect
3.7	Scratch resistance	Linear Glass	to be determined	< 50 gr
		Diamond	to be determined	rating 3
3.8	Ball impact resistance	mm ; Min.	500	800
3.9	Dart impact	mm ; Min.	200	600
3.10	Radiant heat/coil	Sec ; Min.	80	120
	Radiant heat/strip	Sec ; Min.	to be determined	180
3.11	Dimensional change	% MD; Max.	1.1	0.4
		% CD; Max.	1.4	0.9
3.12	Dimensional stability	% MD; Max.	1.0	0.1
		% CD; Max.	1.3	0.6
3.13	Wear resistance	Cycles ; Min.	400	800
3.14	Formability	Radius ; Min.	13	13
3.15	Blister resistance	Sec ; Min.	40	55

## Flame spread and smoke development

Grade	Flame Spread Rating CAN/ULC S-102	Smoke Development Classification CAN/ULC S-102	Flame Spread Index UL723 (ASTME84)	Smoke Development Index UL723 (ASTME84)
Postforming*	55	30	110	25

\* Laminate bonded to an inorganic substrate (GRC glass reinforced cement board)

## Standards and approvals

SURFORMA® laminates meet or exceed standard tests set by:

- The National Electrical Manufacturers Association “ANSI/NEMA LD-3:2005” for high pressure decorative laminates.  
The purpose of this Standards Publication is to provide standard test methods and performance for high-pressure decorative laminates. The compliance of SURFORMA® laminates was tested and validated by the Laboratory of North Carolina State University, a member of ANSI.
- Sonae - Indústria de Revestimentos, S.A is certified under the EN ISO 9001:2015 Quality Management System
- Sonae - Indústria de Revestimentos, S.A is certified under the EN ISO 14001:2004 Environmental Management System
- Sonae - Indústria de Revestimentos, S.A is certified under the OHSAS 18001:2007 Occupational Health and Safety Management System
- *The GREENGUARD Environmental institute has awarded its Indoor Air Quality Certification for Sonae - Indústria de Revestimentos, S.A. All Sonae - Indústria de Revestimentos, S.A laminate product types were tested under the stringent GREENGUARD Standard for low-emitting products. All GREENGUARD Indoor Air Quality Certified products ensure minimal impact on the indoor environmental. For a copy of certificate, visit the site [www.greenguard.org](http://www.greenguard.org) (Ongoing)*

## FSC® products

All SURFORMA® colours in the Sommet® Series and several Prélude® colours are available for FSC® Mixed Credit.



## Antimicrobial activity and efficacy

SURFORMA® decorative laminates have a non-porous surface that does not promote bacterial growth. Tested according to the method ISO 22196:2011 and verification of the compliance with the Japanese criteria defined in JIS Z2801:2012 for antimicrobial activity and efficacy, our laminate surface exhibits strong biocidal properties, with a reduction of 99.9% of the tested bacteria (*Escherichia coli* ATCC 8739, *Staphylococcus aureus* ATCC 6538).

## RECOMMENDATIONS

**Transportation** - SURFORMA® laminates are a cured material and is chemically inert and are therefore classified as a non-hazardous product, thus not requiring any specific labelling. REACH classification does not apply.

**Storage** - SURFORMA® laminates should be stored so they are protected from moisture, humidity and direct sunlight. The laminates should preferably be stored face to face or decorative side facing up, flat in fully horizontal and level racks.

**Handling** - When handling or moving SURFORMA® decorative laminates it is important that the sheets are lifted above adjacent sheets to avoid damage that can occur if the sheets are pulled or slid against each other. For larger sizes, it is recommended that sheets are carried arched along the longitudinal axis to prevent sagging. Individual sheets can also be rolled up for easier handling (roll with the decorative face inwards, making sure to avoid any sideways sliding motion)

**Maintenance and Cleaning** - SURFORMA® laminates, with their durable, hygienic and waterproof surface, require no special maintenance. The surface can be cleaned with warm water followed by wiping with a paper towel or soft cloth. Persistent contamination can usually be eliminated with non-abrasive household cleaners. They are resistant to most solvents and chemicals used daily at home.

**Waste Disposal** - SURFORMA® laminates can be brought to controlled waste disposal sites according to current national and/or regional regulations. Burning is permitted in approved industrial incinerators. Each organization is subject to its own statutory and local laws.

## Specification form

Product shall be SURFORMA® postforming grade laminate:

**Surface:**

Code Number: \_\_\_\_\_ Colour Name: \_\_\_\_\_

**Finish:**

Code: \_\_\_\_\_ Name: \_\_\_\_\_

**Size:**

\_\_\_\_\_



*This document makes no claim of completion in respect of the listing of the full details of standards referred to in the text.*

*All information is based on the current state of technical knowledge, but it does not constitute any form of liability. It is the personal responsibility of the user of the products described in this information leaflet to comply with the appropriate laws and regulations.*

*The company reserves the right to change this document without prior notification*

SURFORMA and the SURFORMA logo are a registered trademarks of Sonae - Indústria de Revestimentos, S.A. and SURFORMA® is a licensed trademark to Tafisa®.Canada.

All ® brands are registered trademarks of the respective owners.

All ™ brands are trademarks of the respective owners.

Tafisa® Canada and Sonae - Indústria de Revestimentos, S.A are subsidiaries of the Sonae Indústria Group.

# SURFORMA®

Shaping Spaces

## SURFORMA® HPL Technical Information

Transport · Storage · Handling · Conditioning



# TAFISA®

Inspiring excellence™

# 1. General Information

Decorative laminates are an excellent material for indoor and outdoor surfaces. They can be used either applied to suitable substrates or as self-supporting compact sheets. Decorative laminates meet the stringent requirements for hygiene, surface resistance, humidity resistance and mechanical properties.

Decorative laminates are available in a variety of colours, patterns and surface textures, providing extensive options for architects and designers. Decorative laminate surfaces are hard and resistant to wear, impact and scratching, making them long lasting, easy to clean and largely resistant to vandalism.

In addition to their physical properties, decorative laminates offer other benefits including quick and easy installation of compact laminate panels, and in renovation applications using dry construction methods, elimination of the need to remove existing wall coverings such as wallpaper, textile coverings, or ceramic tiles.

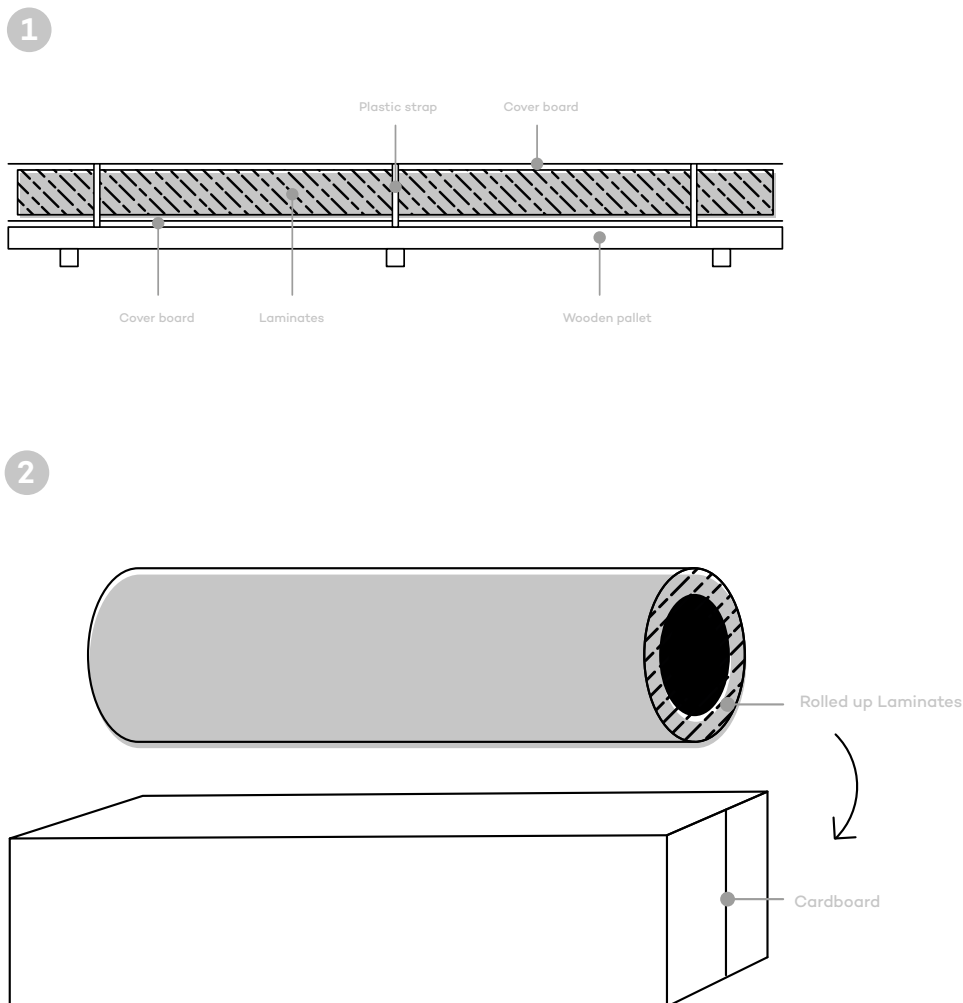
Decorative laminates are composed of paper layers which are impregnated with thermosetting resins and fused together under elevated temperature and high pressure. The laminate structure contains a number of core paper layers typically impregnated with phenolic resin, with the number varying depending on the laminate thickness, and a surface layer typically consisting of a decorative paper impregnated with melamine resin. Printed decorative paper may also include a clear overlay paper to enhance abrasion resistance.

## 2. Transport

Laminates are generally transported on pallets (1). The pallet is suitable for the long-term storage of the laminates.

Cardboard packaging (2) is used for minimum quantities and for deliveries via courier service.

We recommend unpacking the laminates after delivery and storing them according to section 3.1. Optimal conditions for the further processing of the laminates are only guaranteed under these circumstances.



# 3. Storage and handling

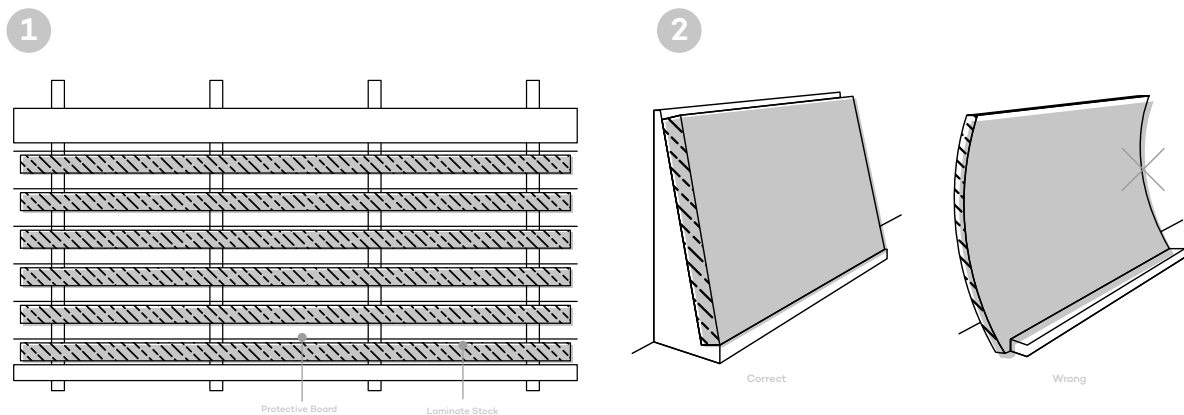
## 3.1 Storage

Decorative laminates should be stored so they are protected from direct sunlight.

The sheets should be placed flat on a suitable horizontal (1) surface (e.g. on a pallet with a backing plate). The stack should be held down with a heavy protective cover plate. If decorative laminates are supplied in film packaging, the film packaging should be re-closed and the cover plate replaced immediately after removing any sheets.

If horizontal storage is not feasible, it is recommended that the material be stored at angle of approx. 80° with support over the entire area as well as a counterweight on the ground to prevent sliding (2).

Decorative laminates should always be kept in an enclosed dry store together with corresponding substrate materials, backing boards and adhesives, at a temperature of not less than 18°C (65°F) and 45 to 50 percent relative humidity.



# 3. Storage and handling

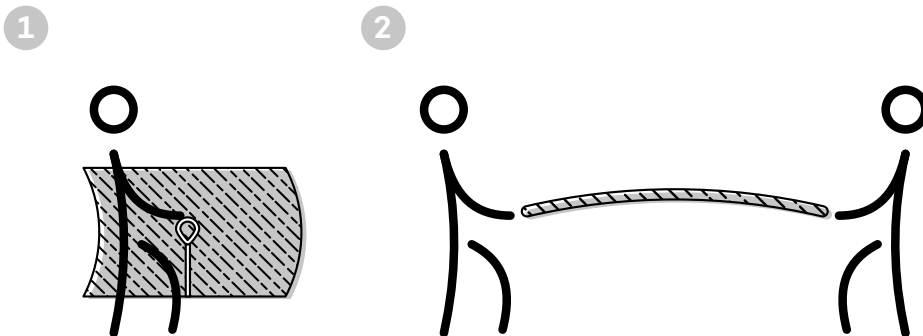
## 3.2 Handling

When handling or moving decorative laminates it is important that the sheets be lifted above adjacent sheets to avoid damage that can occur if the sheets are pulled or slid against each other.

For larger sizes (2) it is recommended that sheets be carried arched along the longitudinal axis to prevent sagging.

Individual sheets (1) can also be rolled up for easier handling (roll with the decorative side to the inside, making sure to avoid any side-to-side sliding motions).

When moving stacked sheets with transport vehicles, large and sturdy pallets should be used, with the stacked sheets secured to prevent sliding.



## 4. Conditioning

When materials are brought into a workshop from temperatures or humidity levels different from ambient (e.g. after delivery), they should be allowed to stabilise before fabrication.

Decorative laminates, substrates and if possible also the adhesives, should be conditioned simultaneously for at least 3 days before processing in order to obtain similar moisture content for both materials. Pre-conditioning ensures that the effects of differential movement, caused by the materials' reaction to changes in relative humidity, are minimized.

The laminates sheets that will form the opposite faces of the same composite board are best conditioned as a pair, with their sanded backs together. Sheets paired in this manner should be stacked, covered, and left for a minimum period of three days in order to reach moisture equilibrium.

Materials which are processed when too wet tend to shrink over time, which in turn can lead to cracking and warping. Materials which are too dry are more difficult to process and may expand over time, possibly leading to warping.

Acceptable moisture content of the materials can be achieved at environmental conditions of 18 – 25°C (65 - 77°F) and 50 – 65 % relative humidity.

The environmental conditions during subsequent use by the customer must be taken into account when planning and designing composite components.

For questions about bonding and for new applications, please contact the technical field service of the adhesives manufacturer.

The information given in this Technical Leaflet is correct at the time of publication (March 2019).  
The Company reserves the right to change the document at any time without prior notification.



# SURFORMA®

Shaping Spaces

Order samples at [www.tafisa.ca](http://www.tafisa.ca)  
Product Information: [marketing@tafisa.ca](mailto:marketing@tafisa.ca)

[www.surforma.com](http://www.surforma.com)  
[www.tafisa.ca](http://www.tafisa.ca)



Une société du groupe / A company of the group



TAFIPAN-EVOLO™ (ULEF) M-2 grade particleboard	ANSI 208.1 - 2022	
	Imperial	Metric
Moisture Content	10% maximum	
Length and Width	± 0.08"	± 2,0 mm
Thickness Tolerance (Average from specified)	± 0.008"	± 0,20 mm
Variance from Panel Average	± 0.004"	± 0,10 mm
Modulus of Rupture (MOR)	1,885 psi	13.0 N/mm <sup>2</sup>
Modulus of Elasticity (MOE)	290,100 psi	2,000 N/mm <sup>2</sup>
Internal Bond (IB)	58 psi	0,40 N/mm <sup>2</sup>
Screwholding - Face	202 lbs	900 N
Screwholding - Edge	180 lbs	800 N
Formaldehyde Emissions	Below 0.04 ppm (EPA TSCA Title VI and CARB ULEF)	

TAFIPAN Panel Sizes and Thickness Combinations									
Dimensions					Thicknesses				
Sizes	Width		Length		1/2	5/8	11/16	3/4	1
	inch	mm	inch	mm					
4' x 8'	49"	1245	97"	2464	✓	✓	✓	✓	✓
4' x 10'	49"	1245	121"	3073		✓	✓	✓	
5' x 8'	61"	1549	97"	2464	✓	✓	✓	✓	
5' x 9'	61"	1549	109"	2769				✓	

# TAFIPAN®

TAFIPAN® (EPA TSCA Title VI) M-2 grade particleboard	ANSI 208.1 - 2022	
Properties	Imperial	Metric
Moisture Content	10% maximum	
Length and Width	± 0.08"	± 2,0 mm
Thickness Tolerance (Average from specified)	± 0.008"	± 0,20 mm
Variance from Panel Average	± 0.004"	± 0,10 mm
Modulus of Rupture (MOR)	1,885 psi	13.0 N/mm <sup>2</sup>
Modulus of Elasticity (MOE)	290,100 psi	2,000 N/mm <sup>2</sup>
Internal Bond (IB)	58 psi	0.40 N/mm <sup>2</sup>
Screwholding - Face	202 lbs	900 N
Screwholding - Edge	180 lbs	800 N
Formaldehyde Emissions	Below 0.09 ppm (EPA TSCA Title VI, CARB ATCM 93120 and CAN/CSA 0160-16)	

TAFIPAN Panel Sizes and Thickness Combinations																		
Dimensions					Thicknesses													
Sizes	Width		Length			7/16	1/2	9/16	19/32	5/8	11/16	3/4	7/8	15/16	1	1 1/8	1 1/4	1 1/2
	inch	mm	inch	mm	inch	0.4375	0.5000	0.5625	0.5938	0.6250	0.6875	0.7500	0.8750	0.9375	1.0000	1.1250	1.2500	1.5000
	inch	mm	inch	mm	mm	11.11	12.70	14.29	15.10	15.88	17.46	19.05	22.23	23.81	25.40	28.58	31.75	38.10
4' x 8'	49"	1245	97"	2464		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
4' x 9'	49"	1245	109"	2769			✓			✓	✓	✓			✓			
4' x 10'	49"	1245	121"	3073			✓			✓	✓	✓			✓	✓		
4.5' x 8.5'	49.5"	1257	97.5"	2477				✓	✓	✓								
5' x 6'	61"	1549	73"	1854			✓			✓	✓	✓			✓	✓		✓
5' x 7'	61"	1549	85"	2159			✓			✓	✓	✓			✓			
5' x 8'	61"	1549	97"	2464		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓
5' x 9'	61"	1549	109"	2769			✓			✓	✓	✓		✓	✓	✓		✓
5' x 10'	61"	1549	121"	3073			✓			✓	✓	✓			✓	✓	✓	
5' x 12'	61"	1549	145"	3683			✓			✓	✓	✓			✓	✓		

## PRELUDE® TECHNICAL SPECIFICATIONS

Tafisa® Decorative Panels (TFL) made with Tafipan M2 grade particleboards (ANSI A208.1-2022)			
Properties	Standard References	Standard Values	Tafisa® Decorative Panels
Wear Resistance	NEMA Ld-3 2005	400 Cycles	Solid Colours** 450 cycles* Woodgrains and Abstracts 150 cycles
Scratch Resistance	EN 438 2.14-91	N/A	3,4 N*
Stain Resistance	NEMA Ld-3 2005	1 to 10 : No Effect 11 to 15 : Moderate Effect	1 to 10 : No Effect 11 to 15 : Moderate Effect
Cleanability	NEMA Ld-3 2005	Maximum 20	Maximum 20
Light Resistance	NEMA Ld-3 2005	Slight Effect	Slight Effect
High Temperature Resistance	NEMA Ld-3 2005	Slight Effect	Slight Effect
Radiant Heat Resistance	NEMA Ld-3 2005	No Effect After 60-secondes Exposure	No Effect After 60-secondes Exposure
Boiling Water Resistance	NEMA Ld-3 2005	N/A	No to slight effect
Impact Resistance	NEMA Ld-3 2005	15 inches - 381 mm	15 inches - 381 mm
Flame-Spread Resistance	ASTM E-84	Classe III ou C	Classe III ou C
Warping	CPA Annex D	N/A	2.6 mm / Linear M

\*For Crystalite Texture \*\*Solids 760, 761, 762, 763, 764, 766, 767, 768: 150 cycles  
NEMA: National Electrical Manufacturers Association, ASTM: American Society for Testing and Materials, EN: European Standard

Panel Dimensions																
Dimensions					Thicknesses											
Sizes	Width		Length		1/4 *	3/8	7/16	1/2	5/8	11/16	3/4	1	1 1/8	1 1/4	1 1/2	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
4' x 8'	49"	1245	97"	2464	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4' x 9'	49"	1245	109"	2769				✓	✓		✓	✓				
5' x 8'	61"	1549	97"	2464	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5' x 9'	61"	1549	109"	2769				✓	✓		✓	✓	✓			✓

\*only MDF

## SOMMET TECHNICAL SPECIFICATIONS

Tafisa <sup>®</sup> Decorative Panels (TFL) made with Tafipan M2 grade particleboards (ANSI A208.1-2022)			
Properties	Standard References	Standard Values	Tafisa <sup>®</sup> Decorative Panels
Wear Resistance	NEMA Ld-3 2005	400 Cycles	Solid Colours** 450 cycles* Woodgrains and Abstracts 150 cycles
Scratch Resistance	EN 438 2.14-91	N/A	3,4 N*
Stain Resistance	NEMA Ld-3 2005	1 to 10 : No Effect 11 to 15 : Moderate Effect	1 to 10 : No Effect 11 to 15 : Moderate Effect
Cleanability	NEMA Ld-3 2005	Maximum 20	Maximum 20
Light Resistance	NEMA Ld-3 2005	Slight Effect	Slight Effect
High Temperature Resistance	NEMA Ld-3 2005	Slight Effect	Slight Effect
Radiant Heat Resistance	NEMA Ld-3 2005	No Effect After 60-secondes Exposure	No Effect After 60-secondes Exposure
Boiling Water Resistance	NEMA Ld-3 2005	N/A	No to slight Effect
Impact Resistance	NEMA Ld-3 2005	15 inches - 381 mm	15 inches - 381 mm
Flame-Spread Resistance	ASTM E-84	Classe III ou C	Classe III ou C
Warping	CPA Annex D	N/A	2.6 mm / Linear M

\*For Crystalite Texture \*\*Solids 760, 761, 762, 763, 764, 766, 767, 768: 150 cycles  
NEMA: National Electrical Manufacturers Association, ASTM: American Society for Testing and Materials, EN: European Standard

### Panel Dimensions

Dimensions					Thicknesses									
Sizes	Width		Length		1/4 *	3/8	1/2	5/8	11/16	3/4	1	1 1/8	1 1/2	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
4' x 8'	49"	1245	97"	2464	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5' x 9'	61"	1549	109"	2769	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\* only MDF

# LUMMIA TECHNICAL DATA



## PANEL CORE

- PB M2 ; Compliant with ANSI 208.1-2022 standards for physical properties.
- EPA TSCA Title VI compliant

## PANEL SIZE

- Dimensions: 5' X 9'
- Thicknesses: 1/4", 1/2", 5/8", 11/16", 3/4", 1", 1-1/8"

## SURFACE QUALITY STANDARDS

Crosscut	EN ISO 2409	< GT 2
Gloss rate	EN 13722	High Gloss > 90 GU (60°) Perfect Matt ≤ 6 GU (60°)
Microscratch resistance	DIN CEN TS 16611 (Method A)	≤ 20%
Scratch resistance	EN 438-2 with contrast material	High Gloss : 1.5 N Perfect Matt : 3.0 N
Chemical resistance	DIN 68861 part 1	Standard DIN 68930 fulfilled
Dry heat	EN 12722	7D (70°C +/- 2)
Wet heat	EN 12721	8B (70°C +/- 2)
Light fastness	EN 15187	Grey scale h ≥ level 4
Surface defect	AMK-MB-009 according to EN ISO 7823-3	Passed

Surface defects must not have a detrimental effect. Defects not larger than 1.0 mm<sup>2</sup> and detected from an observation distance of 0.7 m (27.5 po) and a viewing angle of about 300 during the evaluation of the surface are permissible. Max 1 defect par m<sup>2</sup> is permissible. The total number of defects allowed per board may be concentrated in one area or split across the panel.

Any defect in the perimeter of the board, up to 10 mm inward, is not considered as such because it is in an area that will be removed when processing.

# Decorative Panel (TFL) Maintenance and Disinfection



**TAFISA® decorative TFL panels are easy to maintain and do not require special care. Normal use and basic maintenance will ensure years of use and unsurpassed surface quality.**

**TAFISA®**

## General surface maintenance

The surfaces of TAFISA®'s decorative panels are easy to maintain with a mild liquid soap and dry cloth. For best results and to avoid streaks, TAFISA® recommends using a foaming aerosol glass cleaner with a dry soft or microfibre cloth. Apply a fair amount of foam on the surface and gently wipe with the dry cloth.

The following products are recommended by our experts:

- PRESTA® ammonia-free glass cleaner
- BON AMI® Power foam glass cleaner

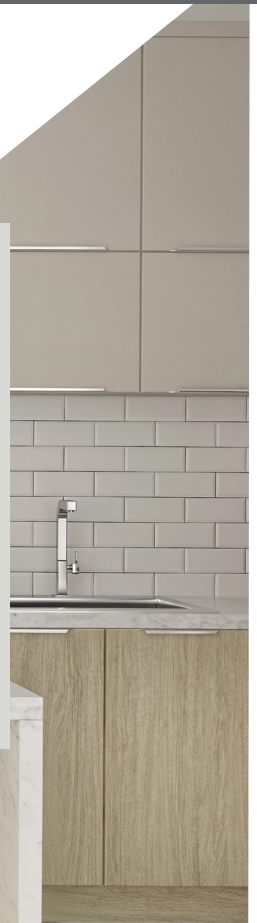
Never use cleaning products containing wax, abrasives, acids or strong alkaline bases, as well as steel wool or abrasive scouring pads. These products can cause irreversible damage to your decorative panel surfaces.

## Spot cleaning

TAFISA®'s decorative panels are rigorously tested for resistance to stains from everyday products according to NEMA LD-3 2005 standards. See page 3 for a list of stain-resistant products.

## CAUTION

Tafisa Canada does not control any post-production modifications to its decorative panels, such as the installation of edgebanding. To best maintain your TAFISA® decorative panel surfaces, it is important to avoid using large amounts of liquid. In the event that installation has resulted in gaps between the panels and edgebanding, the liquid may cause the panels to swell, especially if left on the panels for an extended period of time.





## Stain-resistant products

- Distilled water
- Ethyl alcohol 50 :50
  - Acetone
- All-purpose ammonia
  - 10% citric acid
  - Vegetable oil
    - Coffee
    - Tea
  - Ketchup
- Yellow mustard

## Moderately stain-resistant products

- 10% povidone iodine
- Black permanent marker
  - #2 pencil
  - Crayons
- Black shoe wax

If a mild liquid soap or glass foam product does not sufficiently remove a stain, methyl alcohol or acetone is recommended. Always read and follow the manufacturer's safety guidelines when using alcohol or acetone.

## Disinfection of surfaces

All TAFISA® decorative panel textures in the Prélude® and Sommet® series have undergone testing according to BIFMA HCF 8.1-2019 Health Care Furniture Design Guidelines for Cleanability. All testing was conducted by the BIFMA-approved third party testing lab Micom Laboratories.

### Test #6 : Resistance to disinfectants

1. Distilled water,
2. Diluted Javel (10 :1),
3. 3% hydrogen peroxyde solution,
4. Quaternary ammonium
5. 70% isopropyl alcohol
6. Phenols

All textures meet the standard.

### Test #8 : Resistance to steam

All textures meet the standard.

### Test #9 : Resistance to UV light

All textures meet the standard.

TAFISA® recommends using hydrogen peroxide-based disinfectant in the form of wipes, as the company considers this solution to be the least damaging in the long term. The following products are recommended by our experts:

- VIROX® wipes
- Oxivir® wipes
- Accel® wipes

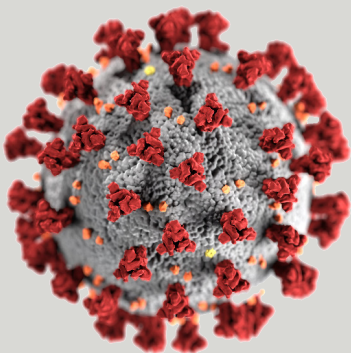
## Antimicrobial efficacy

TAFISA® decorative panels have a non-porous surface that does not promote bacterial growth.

Decorative panels sampled from all of Tafisa's textures have been tested by the third-party Microchem Laboratories according to ISO 22196: 2011 standards. The panels were also proven to be compliant with the Japanese JIS Z2801: 2012 standard for antimicrobial activity and effectiveness in not promoting bacterial growth. Demonstrated to reduce 99.9% of the bacteria tested (*Escherichia coli* ATCC 8739, *Staphylococcus aureus* ATCC 6538), TAFISA®'s decorative panels exhibit strong biocidal properties.



## IMPORTANT NOTE CONCERNING COVID-19



TAFISA® decorative panel surfaces are not anti-virus. The proven antimicrobial properties of our panels do not protect users from contamination of Covid-19 or other germs, bacteria or viruses. They do not serve as a substitute for disinfection with the products mentioned above.

### 1 Product and Company Identification

**Product Name:** Sonae Industria Laminates, Surforma® brand (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 INDUSTRIA DE REVESTIMENTOS S.A.  
Lugar do ESPIDO  
Apartado 1129  
4471-909 Maia – Portugal  
Tel. 22 010 63 00

**Supplier:**

TAFISA CANADA  
4660, Villeneuve  
Lac-Mégantic  
Québec, Canada G6B 2C3  
Tel: (819) 583-2930

**In case of emergency contact:**

- **Company:** + 1 (819) 583-3014, ext 333 – security 24 hours  
+ 1 (819) 583-2930 – front desk 8am to 5pm

**Or call your local Emergency Health Services Center**

### 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 of 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	CAS#	% by weight
Paper / Cellulose Fiber	9004-34-6	60 – 70
Cured Thermosetting Resins	proprietary	30 – 40

### 4 First Aid Measures

<b>Inhalation:</b>	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.
<b>Skin Contact:</b>	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.
<b>Eye Contact:</b>	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.
<b>Ingestion:</b>	Not an expected route of entry with normal use of product. Treat symptomatically and supportively if dust is ingested.

### 5 Fire-fighting measures

<b>Flash Point:</b>	Not Applicable
<b>Flash Point Method:</b>	Not Applicable
<b>Auto ignition Temp.:</b>	Not Available
<b>Burning Rate:</b>	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

<b>Exposure Guidelines:</b>	<b>OSHA PEL</b> 15mg/m <sup>3</sup> Total Dust 5mg/m <sup>3</sup> Respirable <b>ACGIH</b> TWA 10mg/m <sup>3</sup>
<b>Engineering Controls:</b>	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.
<b>Eye/face Protection:</b>	Wear safety glasses when sawing, sanding, drilling or routing.
<b>Skin Protection:</b>	Wear appropriate gloves when installing, transporting, sawing, cutting, drilling, routing or handling uninstalled pieces.
<b>Foot Protection:</b>	No special protection required.
<b>Respiratory Protection:</b>	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
<b>Color:</b>	According to product specification
<b>Odor:</b>	None
<b>PH value:</b>	Not applicable
<b>Melting point / Melting range:</b>	Not applicable
<b>Boiling point / Boiling range:</b>	not applicable
<b>Ignition temperature:</b>	Approx. 400 °C
<b>Decomposition Temperature:</b>	Not applicable
<b>Auto flammability:</b>	The product itself does not flash
<b>Danger of explosion:</b>	Not applicable
<b>Calorific power:</b>	18-20 MJ / Kg
<b>Solubility:</b>	Not soluble
<b>Volatile Organic Compound (VOC) content, %</b>	VOC release is extremely low
<b>Density:</b>	≥ 1,35 g/cm <sup>3</sup>

## 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/m<sup>3</sup> = Milligrams per Cubic Meter of Air

#### **Notice to Reader**

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