

To: B+N Industries, Inc.

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	FORTINA (Interior Type)
Name of manufacturer	Toppan Cosmo, Inc.
Address	3-19-26 Shibaura, Minato-ku, Tokyo, Japan Toppan Shibaura Building
Telephone No.	03-5418-3500
Emergency contact	03-5418-3680 (Product Engineering Group, Product Manufacturing Department, Development Division)
Fax No.	03-5418-3676

### 2. HAZARDS IDENTIFICATION

GHS classification	Not applicable.
Hazard statement	(1) Non-hazardous material and risk is low. (2) Prolonged inhalation of dust generated by cutting may affect the respiratory organs. (3) If dust generated by cutting gets into the eyes, the eyeballs may be damaged. (4) Some pigments and stabilizers contain heavy metals, Cr (trivalent), Sb and Ni.
Effect to environment	None known.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Classification of single product or mixture	Mixture (Printed film, adhesive and aluminum)
Chemical name (Product name)	Aluminum material coated with polyolefin resin sheet
Ingredients and contents	Polyolefin resin, ink pigment, polyurethane resin, acrylic resin and aluminum
Chemical formula or structural formula	Not applicable since it is a mixture
Reference Number in Gazetted List in Japan	Not applicable because it is a mixture
UN classification and UN number	Not applicable because it is a mixture

### 4. FIRST AID MEASURES

IF IN EYES	Wash in running water without rubbing because dust and fragments generated when cutting may damage the eyeballs. Consult with a medical specialist.
IF ON SKIN	Prolonged contact of dust generated by cutting with skin may cause rough skin. If skin inflammation occurs, consult with a medical specialist.
IF INHALED	If any discomfort is experienced, immediately remove to fresh air.
IF SWALLOWED	After vomiting, immediately get medical attention.

Extinguishing media	Minister of Land, Infrastructure, Transport and Tourism, take measures such as evacuating upwind and wearing protective equipment in the event of fire because toxic substances such as black smoke and carbon monoxide may be generated in case the product is exposed to high temperature and the decorative surface layer burns. Water spray, dry chemical, foam
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**6. ACCIDENTAL RELEASE MEASURES**

Not applicable.

**7. HANDLING AND STORAGE**

Handling	Wear protective gloves (cotton gloves, etc.) when handling. Wear protective glasses and dust protective mask when cutting or fabricating. Sufficiently ventilate the workplace. Provide dust collectors.
STORAGE	Take care not to cut your hands on edges of the product. Store in packaged state in indoor general warehouse avoiding direct sunlight. Be careful to keep dry. Avoid falling, dropping and friction.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

[Exposure control]	None
[Personal protection]	Equipment countermeasure      None
Respiratory protective equipment	Wear appropriate protective equipment (dust protective mask, etc.) when performing work that generates dust.
Protective glasses	Wear appropriate protective equipment (goggles, full-surface shield, etc.) when performing work that generates dust.
Protective gloves	Wear appropriate protective equipment (synthetic rubber gloves, arm covers, etc.).
Protective clothes	Wear appropriate protective clothes when performing work that generates dust.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance, etc.	Bar-type solid form
Boiling point	Not applicable.
Vapor pressure	Not applicable.
Volatility	Not applicable.
Melting point	Not applicable.
Specific gravity	2.7 g/m <sup>2</sup>
Initial boiling point	Not applicable.
Solubility in water	Not applicable.
Others	Not applicable.

**10. SAFETY AND REACTIVITY**

Flash point	Decorative surface layer: Approx. 300°C .
Ignition point	Decorative surface layer: Approx. 400°C.
Explosion limit	Upper limit: No data. Lower limit: No data.
Combustibility	Decorative surface layer: Combustible
Ignitability (pyrophoricity, reactivity with water)	None known.
Oxidizability	Contact with chemical substances, such as acid, may generate harmful gas.
Autoreactivity, explosiveness	None.
Dust explosiveness	Lower explosive limit: 45g/m <sup>3</sup>
Stability, reactivity	Decorative surface layer: Relatively weak against alkali
Others	None known.

**11. TOXICOLOGICAL INFORMATION (Including case with people and epidemiological information)**

Skin corrosivity	None known.
Irritation (skin, eyes)	Prolonged contact of dust generated by cutting with skin may cause rough skin.
Sensitizing potential	None known.
Acute toxicity	None known.
Subacute toxicity	None known.
Chronic toxicity	None known.
Carcinogenicity	None known.
Mutagenicity	None known.
Reproductive toxicity	None known.
Teratogenicity	None known.
Others (Including generation of toxic gas by reaction with water, etc.)	None known.
Others	None known.

**12. ECOLOGICAL INFORMATION**

Degradability	None known.
Accumulative property	None known.
Fish toxicity	None known.

**13. DISPOSAL CONSIDERATIONS**

This product and its cut pieces can be classified as “scrap metal” specified by law. Ask an appropriate recovery company to dispose them of.

**14. TRANSPORT INFORMATION**

Load in a manner to prevent falling, dropping, abrasion, etc. during transportation and provide reliable measures to prevent load shifting.  
Keep dry.

**15. REGULATORY INFORMATION**

None

## TECHNICAL INFORMATION

# Fortina MSDS > Interior

Date: Feb. 13, 2015  
Reference number: SBR-0284

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Tourism, MFN-0717 F☆☆☆☆

Materials containing asbestos are not used.

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The contents of this sheet are based on reference materials, information and data that are available at present and may be revised according to revision of laws and regulations as well as due to new findings. In addition, the precautions described in this document are intended for use under normal conditions. In case of special handling is required, provide appropriate safety measures for the application and usage.

The contents of this sheet are for provision of information and are not guaranteed.

To:  
Property name:

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	FORTINA: Exterior Type
Name of manufacturer	Toppan Cosmo, Inc.
Address	3-19-26 Shibaura, Minato-ku, Tokyo, Japan Toppan Shibaura Building
Telephone No.	03-5418-3500
Emergency contact	03-5418-3680 (Product Engineering Group, Product Manufacturing Department, Development Division)
Fax No.	03-5418-3676

### 2. HAZARDS IDENTIFICATION

GHS classification	Not applicable.
Hazard statement	(1) Non-hazardous material and risk is low. (2) Prolonged inhalation of dust generated by cutting may affect the respiratory organs. (3) If dust generated by cutting gets into the eyes, the eyeballs may be damaged.
Effect to environment	None known.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Classification of single product or mixture	Mixture (Aluminum, printed film and adhesive)
Chemical name (Product name)	Composite material of laminated aluminum and resin sheets
Ingredients and contents	Aluminum, polyolefin resin, ink pigment, polyvinylidene fluoride, methacrylic acid alkyl ester/acrylic acid alkyl ester copolymer, etc.
Chemical formula or structural formula	Not applicable because it is a mixture
Reference Number in Gazetted List in Japan	Not applicable because it is a mixture
UN classification and UN number	Not applicable because it is a mixture

### 4. FIRST AID MEASURES

IF IN EYES	Wash in running water without rubbing because dust and fragments generated when cutting may damage the eyeballs. Consult with a medical specialist.
IF ON SKIN	Prolonged contact of dust generated by cutting with skin may cause rough skin. If skin inflammation occurs, consult with a medical specialist.
IF INHALED	If any discomfort is experienced, immediately remove to fresh air.
IF SWALLOWED	After vomiting, immediately get medical attention.

Extinguishing media	Minister of Land, Infrastructure, Transport and Tourism, take measures such as wearing protective equipment according to the situation because toxic and corrosive fluorine-containing substances can be generated in case the product is exposed to high temperature and the decorative surface layer burns. Water spray, dry chemical, foam, carbon dioxide
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**6. ACCIDENTAL RELEASE MEASURES**

Not applicable.

**7. HANDLING AND STORAGE**

Handling	Wear protective gloves (cotton gloves, etc.) when handling. Wear protective glasses and dust protective mask when cutting or fabricating. Sufficiently ventilate the workplace. Provide dust collectors.
STORAGE	Take care not to cut your hands on edges of the product. Store in packaged state in indoor general warehouse avoiding direct sunlight. Be careful to keep dry. Avoid falling, dropping and friction.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

[Exposure control]	None
[Personal protection]	Equipment countermeasure      None
Respiratory protective equipment	Wear appropriate protective equipment (dust protective mask, etc.) when performing work that generates dust.
Protective glasses	Wear appropriate protective equipment (goggles, full-surface shield, etc.) when performing work that generates dust.
Protective gloves	Wear appropriate protective equipment (synthetic rubber gloves, arm covers, etc.).
Protective clothes	Wear appropriate protective clothes when performing work that generates dust.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance, etc.	Bar-type solid form
Boiling point	Not applicable.
Vapor pressure	Not applicable.
Volatility	Not applicable.
Melting point	Not applicable.
Specific gravity	2.7 g/m <sup>2</sup>
Initial boiling point	Not applicable.
Solubility in water	Not applicable.
Others	Not applicable.

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**10. SAFETY AND REACTIVITY**

Flash point	Decorative surface layer: No data
Ignition point	Decorative surface layer: No data
Explosion limit	Upper limit: No data. Lower limit: No data.
Combustibility	Decorative surface layer: Combustible
Ignitability (pyrophoricity, reactivity with water)	None known.
Oxidizability	None under normal handling conditions
Flammability	Toxic gas (hydrogen fluoride, carbon oxide, etc.) may be generated.
Autoreactivity, explosiveness	None known.
Dust explosiveness	Lower explosive limit: 45g/m <sup>3</sup>
Stability, reactivity	Decorative surface layer: May react with strong oxidizers.
Others	None known.

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**11. TOXICOLOGICAL INFORMATION (Including case with people and epidemiological information)**

Skin corrosivity	None known.
Irritation (skin, eyes)	Prolonged contact of dust generated by cutting with skin may cause rough skin.
Sensitizing potential	None known.
Acute toxicity	None known.
Subacute toxicity	None known.
Chronic toxicity	None known.
Carcinogenicity	None known.
Mutagenicity	None known.
Reproductive toxicity	None known.
Teratogenicity	None known.
Others (Including generation of toxic gas by reaction with water, etc.)	None known.
Others	None known.

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**12. ECOLOGICAL INFORMATION**

Degradability	None known.
Accumulative property	None known.
Fish toxicity	None known.

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**13. DISPOSAL CONSIDERATIONS**

This product and its cut pieces can be classified as "scrap metal" specified by law.  
Ask an appropriate recovery company to dispose them of.

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**14. TRANSPORT INFORMATION**

Load in a manner to prevent falling, dropping, abrasion, etc. during transportation and provide reliable measures to prevent load shifting.

Keep dry.

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**15. REGULATORY INFORMATION**

None

## TECHNICAL INFORMATION

### Fortina MSDS > Exterior

Date: Jan. 21, 2015  
Reference number: SBR-0281

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Tourism, MFN-0717 F☆☆☆☆.

Materials containing asbestos are not used.

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Toppan Cosmo, Inc.

