

# Material Safety (MSDS) Data Sheet

## 1. IDENTIFICATION

Trade Name:

Wundertile™ Aluminum Composite Panel

Details of the supplier of the Material Safety Data Sheet:

Wundertile, a Division of the Rudiger Group Inc,

10330-117 Ave.

Grande Prairie, AB, T8V 7S5

Information Phone Number:

877-759-5755

Emergency telephone number:

CHEMTREC: Canada/USA- 1-800-424-9300 International - (703) 527-3887

Website:

[www.wundertile.ca](http://www.wundertile.ca)

Country of Manufacturing Origin:

Germany

## 2. HAZARDS INFORMATION

Trade Name:

Wundertile

Classification of the material:

Wundertile is its solid state non-combustible sheet and does not present hazardous properties per se. At room temperature it is not an irritant.

Other hazards:

Processing (ie cutting or drilling) of the product can result in the formation of airborne dust. When subjected to high temperatures, thermal decomposition of the core is possible which can result to the release of toxic fumes.

## 3. COMPOSITION

The panel is a composite of two sheets of aluminum bonded to a polymeric core.

The Aluminum is subjected to chrome-free passivation.

The Aluminium sheets are pre-painted with PVDF (Polyvinylidene fluoride), PU (polyurethane) or Polyester based coatings, of different colour, thickness and dimensions.

The core material is made primarily of Polyethylene (up to 98%) and Carbon Black (less than 2.5%).

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### Chemical Characterization:

CAS ##	Component	%
Aluminum Layer:		
7429-90-5	Aluminium	>94
7439-95-4	Magnesium	<0.8
7439-96-5	Manganese	<1.5
Polymeric core		
9000-98-4	Polyethylene	<98
n/a	Carbon black	<2.5
Coating:		
n/a	Resins	>14

### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of an emergency during the release of Dust or Fume from mechanical processing, apply the following First Aid actions:

**Eye Contact:** Hold eyelids apart and flush eyes with large amounts of clean water for 15 minutes. Seek medical attention if irritation persists.

**Skin Contact:** Wash skin with mild soap and water. Seek prompt medical attention for any red skin especially for skin sensitive individuals. If molten material gets on the skin, cool rapidly with cold water. Do not attempt to remove material from skin. Get medical treatment for thermal burns.

**Ingestion:** If large amounts are swallowed do not cause vomiting. Give victim 1 or 2 glasses of fresh water to dilute. Contact a physician for prompt medical attention.

**Inhalation:** Remove person to fresh- clean air. Seek prompt medical attention.

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## 5. FIRE FIGHTING MEASURES

Flammable / Combustible Properties:

This product does not present fire or explosion hazards as shipped.

Fire /Explosion: May be a potential hazard under the following conditions:

Dust or fines dispensed in the air can be explosive. Dust accumulation can ignite and flames propagate.

Dust or fines in contact with certain metal oxides. May form flammable dust-air mixture.

Molten metal in contact with water or other metal oxides can trap moisture which could be explosive.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus with a full face piece operated either in positive pressure or pressure demand mode.

Special Precautions: Fire fighters should wear protective clothing and use equipment suitable for the materials involved in the surrounding fire.

Special hazards caused by the material, its products of combustion or resulting gases. In case of fire it can release: water (H<sub>2</sub>O), Carbon dioxide (CO<sub>2</sub>), and when lacking Oxygen (O<sub>2</sub>), Carbon Monoxide (CO). The released fumes are dangerous.

Protective equipment: Use a mask with universal filter. Use self-contained breathing apparatus (SCBA) within confined rooms.

Unsuitable Fire- Extinguishing Agents:

DO NOT USE:

- Halogenated agents on small chips, dusts or fines.
- Water around molten metal or plastic.

These agents will react with the burning material.

## 6. ACCIDENTAL RELEASE MEASURES

Dust or small / large pieces: Collect for recycling.

Molten core/aluminium: Collect after cooling and dispose accordingly.

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## 7. HANDLING AND STORAGE

Information for Safe Handling: Use appropriate personal protective equipment. Handle away from all sources of heat or ignition.

Storage: Store in a cool dry area away from all sources of heat or ignition or direct sunlight or organic solvents or oxidizing agents. Storage palettes should be stacked at a maximum of three in height. When stored outside (this only for a short period of time) palettes should be protected from direct sunlight, rain and humidity and should be covered at all times with heavy plastic sheets and protected from physical damage. Avoid contact with sharp edges.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protection: Apply the basic personal hygiene measures. Do not consume food or beverages in the workplace where airborne particles or dust exists. Follow best industrial hygiene practice; always wash hands before consuming food.

Respiratory Protection: Use exhaust systems to remove airborne particles from their source. Well ventilate confined spaces. Use a mask with filter according to EN149:2001, if it is not possible to keep exposure below the Workplace Exposure Limits (WELs, see below). Use self-contained breathing apparatus (SCBA) within confined spaces, where necessary.

Hand Protection: Wear common type gloves to protect against sharp edges of the product.

Eye Protection: Wear tightly sealed goggles during mechanical processing of the product.

Other Personal Protection: An eye-wash facility should always be available in work areas.

Work clothing: Separate contaminated work clothes from street clothes. Launder before reuse. Remove dust from your shoes and clean properly all personal protective equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid panels

Odor threshold: ND

Appearance and Odor: Solid aluminium, polyethylene, composite material, various colors, odorless

Viscosity: NA

Refractive Index: NA

Vapor Density(Air=1): Heavier than Air Boiling point: NA

% volatiles: NA

Water Solubility: Insoluble Vapor Pressure: NA

Density: 1.0 - 2.3 g/cm<sup>3</sup> Density: NA

pH: NA

Evaporation Rate: NA

Freezing Point: NA

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Formula weight: NA

Melting Point: Core (~104°C), aluminium (>600°C)

Other Solubilities: NA

### 10. STABILITY AND REACTIVE STABILITY

Stability and Reactivity Stability: Stable under conditions of normal use

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: No hazardous decomposition products known up to -40°C to 85° C temperatures.

Materials to avoid: Oxidizing agents, Strong Acids

Conditions to Avoid: Overheating above melting point (see Section 9)

### 11. TOXICOLOGICAL INFORMATION

Inhalation: Inhalation of toxic fumes released from the thermal decomposition of the aluminum coatings or the core, may result to respiratory irritation. In case of fire, toxic (e.g. carbon monoxide) and /or asphyxiant (e.g. carbon dioxide) gases may also be released. Depending on the nature of the coating used on aluminium, other toxic gases may be released. Inhalation of toxic gases without the use of applicable PPE (see below) poses severe risks to health, whereas asphyxiant gases displace much of the oxygen in the air; breathing of oxygen - depleted air can be fatal.

Skin Contact. Molten product adheres to the skin and causes burns.

### 12. ECOLOGICAL INFORMATION

No information available for product concerning ecotoxicity, environmental degradation or soil absorption and mobility.

### 13. DISPOSAL CONSIDERATIONS

Product Disposal: Reuse or recycle material whenever is possible. If reuse or recycle is not possible then follow local applicable regulations.

### 14. TRANSPORT INFORMATION

Not regulated

### 15. REGULATORY INFORMATION

Check marks indicate that the chemical is subjected to the associated regulatory requirements and/or appears on the associated chemical inventory list

- Chemical Component: Aluminium face sheets CAS: Proprietary - DSL/NDSL inventory (Canada)  
TSCA Inventory (US)
- Chemical Component: Polyethylene CAS : Proprietary - DSL inventory (Canada)

## Material Safety (MSDS) Data Sheet

TSCA Inventory (US)

- Chemical Component: Fluoropolymer Coating CAS: Proprietary

DSL inventory (Canada)

TSCA Inventory (US)

### 16. LAST REVISION DATE

07-03-2024

### 17. DISCLAIMER

The details are based on our current knowledge and are intended to describe the product with respect to the applicable safety regulations. They do not represent any assurance of product properties and do not constitute a contractual legal relationship.

The information contained here is correct at the time of publication to the best of our knowledge. However no guarantee, direct or indirect, is given. The regulations may be revised and can vary from site to site. It is the responsibility of the client/installer/end user to find out the applicable laws at a federal, regional and local level. The information given here relates to the product only as it is dispatched. Since the use of the product is out of the control of the manufacturer, the buyer/user is obliged to determine the necessary conditions for safe handling of the product. Should you have obtained safety data sheets from another source or if there is uncertainty about the currency of the safety data sheets, please contact us to obtain the latest safety data sheets.