

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME (AS LABELLED): STACBOND® FR Aluminum Composite Panel
PRODUCT USE: Finished Aluminum Composite Panel
MANUFACTURER'S NAME: STAC, Sistemas Técnicos del Accesorio y Componentes, S.L.
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DATE OF PREPARATION: July 19, 2017

2. HAZARDS IDENTIFICATION

EU DANGEROUS PREPARATIONS DIRECTIVE (DPD) LABELLING AND CLASSIFICATION: This product does not meet the definition of any hazard class, as defined by the European Union Council Directives 67/548/EEC and 1999/445/EC and subsequent Directives. For information on classification under CLP Regulation (EC) 1271/2008, please refer to section 16 (other information).

Classification: Not applicable

Risk Phrases: Not applicable

Safety Phrases: Not applicable

Annex II Hazard Symbol: Not applicable.

EMERGENCY OVERVIEW: Product description: This product is a painted aluminum composite panel with a highly filled polyethylene core. The panel is supplied in a variety of colors and panel thicknesses. **Health Hazards:** The panel as a finished product is non-hazardous, however cutting, sawing or sanding of this panel may produce hazardous dust, and or toxic fumes when heated to decomposition. **Flammability Hazards:** As supplied, this product is not combustible. **Reactivity Hazards:** None. **Environmental Hazards:** None. **Emergency Considerations:** Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

3. COMPOSITION and INFORMATION ON INGREDIENTS

Hazardous Ingredients:	CAS #	Hazard Symbol; Risk Phrases
Polyethylene Core with Fire Retardant Filler	9002-88-4	HAZARD CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Protective Film	Not established	HAZARD CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Aluminium Sheet	7429-90-5	HAZARD CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Painted Finish:	Mixture	HAZARD CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE

This product is odorless, stable, and poses no immediate hazard to health. However, respiratory, hand and eye protection may be needed to prevent excess exposure to airborne particulates if dust is produced by cutting, sanding, grinding or if dust is produced by any other operation. These dusts may be harmful if inhaled. Aspiration hazard. Can enter the lungs and cause damage. Dust may contain trace materials which can cause target organ damage. Development Hazard – Dust may contain trace materials which can cause adverse development effects. Reproductive Hazard – Dust may contain trace materials which can cause adverse reproductive effects in females.

4. FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

INHALATION: It is unlikely that this product can be inhaled in the supplied form. Nevertheless, if breathing becomes difficult, remove contaminated individual to fresh air. Seek medical attention if breathing difficulties continues.

INGESTION: It is unlikely that this product can be inhaled in the supplied form. Routine installation of this product is not expected to cause any situation which could lead to ingestion. If a significant quantity of dust from this product is swallowed, call poison control for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.

SKIN EXPOSURE: It is unlikely that this product will cause irritation to the skin in the supplied form. Washed affected area thoroughly with soap and water.

EYE EXPOSURE: Not expected as a result of exposure to finished product. If dust generated by cutting, sanding or grinding of this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual should seek medical attention if irritation occurs.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin and respiratory disorders may be aggravated by prolonged overexposures to dusts generated by sawing, sanding, grinding or altering this product.

OTHER INFORMATION: for advice in an emergency, contact a doctor at once.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISH MEDIA: Use appropriate fire extinguisher for surrounding environment.

HAZARDS FROM COMBUSTION PRODUCTS: Non-combustible material. Some parts of packing are combustible.

SPECIFIC HAZARDS: When burnt or overheated, the product and packaging may release products including carbon monoxide and metallic oxides.

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABLE LIMITS (in air by volume, %): Lower: Not applicable Upper: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product has no unusual fire or explosion hazards.

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storms drains, bodies of water, or other environmental sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Pick-up for re-use or recycle.

EMERGENCY PROCEDURES: Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling.

7. HANDLING and STORAGE

PRECAUTIONS FOR SAFE HANDLING: Product is expected to be formed, fastened and cut. Product should not be welded or sanded. Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling. Pre-painted aluminium should not be sanded, ground or otherwise abraded, in any operation that will penetrate the surface coating and create airborne dust.

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Maintain high standards of personal hygiene i.e.: washing hands prior to eating, drinking, or using toilet facilities.

CONDITIONS FOR SAFE STORAGE: The material as supplied is not known to be hazardous to the environment. Product must be stored and secured to prevent movement during storage and transport. Store panels in a cool, dry location, away from sources of intense heat. Store panels away from incompatible chemicals (see Section 10, Stability and Reactivity). Minimize dust in the work area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

BIOLOGICAL LIMIT VALUES: No biological limits allocated.

VENTILATION AND ENGINEERING CONTROLS: Use with good general ventilation. No special ventilation is required for the product as supplied. Painted aluminium should be not sanded, ground or otherwise abraded, in any operation that will be penetrate the surface and create airborne dust.

RESPIRATORY PROTECTION: Respiratory protection is not needed for finished product. Respiratory protection may be required if exposure levels are exceeded during cutting, sanding or grinding. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable filter should be used. Respiratory Protective Device, in order to make any necessary changes for individual circumstances.

EYE PROTECTION: Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

HAND PROTECTION: Appropriate gloves should be worn handling strip or sheet aluminium, to avoid cuts from splinters, burrs, sharp edges, and contact with any surface treatments including oils if they are present. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling according to risk assessments undertaken.

BODY PROTECTION: Suitable protective workwear, i.e. cotton overalls buttoned at neck and wrists is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: thin aluminium coil or sheet in various colours

ODOUR: not applicable

DECOMPOSITION TEMPERATURE: not available

MELTING POINT: Base metal 660°C (approximately)

BOILING POINT: Base metal 24270°C (approximately)

SOLUBILITY IN WATER: insoluble

SPECIFIC GRAVITY @ 20°C: not applicable

pH VALUE: not applicable

VAPOR PRESSURE: not applicable

VAPOR DENSITY: not applicable

EVAPORATION RATE: not applicable

ODOUR TRESHOLD: not applicable

VISCOSITY: not applicable

OCTANOL/WATER PARTITION COEFFICIENT: not applicable

FLASH POINT: not applicable

FLAMMABILITY LIMIT – UPPER: not applicable

FLAMMABILITY LIMIT – LOWER: not applicable

AUTO-IGNITION TEMPERATURE: not applicable

KINEMATIC VISCOSITY: not applicable

DYNAMIC VISCOSITY: not applicable

EXPLOSION LIMIT – UPPER: not applicable

EXPLOSION LIMIT – LOWER: not applicable

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10. STABILITY and REACTIVITY

STABILITY AND REACTIVITY: Refer to hazardous reactions below.

CHEMICAL STABILITY: Stable under normal conditions of storage and handling.

CONDITION TO AVOID: None expected, when use as intended.

INCOMPATIBLE MATERIALS: Incompatible materials chips, fines, dust and molten metal are considerably more reactive with the following:

- *Strong oxidizers:* violent reaction with considerable heat generation. Can react explosively with nitrates when heated or molten.
- *Acids and alkalis:* React to generate flammable/explosive hydrogen gas. Generation rate is greatly increased with smaller particles.
- *Halogenated compounds.* Many halogenated hydrocarbons, including halogenated fire extinguish agents, can react violently with finely divided or molten aluminium.
- *Iron oxide (rust) and other metal oxides (e.g. copper and lead oxides):* a violent thermite reaction generating considerable heat can occur. Reaction with aluminium fines and dusts requires only very weak ignition source for initiation. Molten aluminium can react violently with iron oxide without external ignition source.
- *Iron powder and water:* Explosive reaction forming hydrogen gas when heated above 800 °C.

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: No toxicity data available for finished panel or individual components.

INHALATION: It is unlikely that this product can be inhaled in the supplied form. Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

INGESTION: It is unlikely that this product can be ingested in the supplied form

SKIN: It is unlikely that this product will cause irritation to the skin in the supplied form

EYE: It is unlikely that this product will enter the eye(s) in the supplied form.

CHRONIC EFFECTS: None expected, when used as intended

12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination.

ECOTOXICITY: No ecological data available for this material.

PERSISTENCE / DEGRADABILITY: No data for this product.

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MOBILITY: Not available

BIOACCUMULATIVE POTENTIAL: Not applicable for this product.

ENVIRONMENTAL PROTECTION: The material as supplied is not known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

This product and packing can be recycled, any disposal of waste product should be in accordance with local regulations.

14. TRANSPORT INFORMATION

Not classified as dangerous goods according to the European Agreement on Dangerous Goods by Road (ADR).

Not classified as dangerous goods by the criteria of the International Air Transport Association (IATA), dangerous goods regulations for transport by air.

Not classified as dangerous good by the criteria of the International Maritime Dangerous Code (IMDG Code) for transport by sea.

15. REGULATORY INFORMATION

Not classified as hazardous

16. OTHER INFORMATION

DATE OF PRINTING: July 19, 2017

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