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				Prepared by		Quality Dept. and H&S Dept.	
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## 1. Identification


<b>Product</b>	Gbrick. Plywood panels with an XPS core.
<b>Use</b>	Lightweight panels with structural and decorative capabilities.
<b>Contact details</b>	Grupo Garnica Plywood S.A.U. Parque San Miguel 10 Bajos 26007 Logroño –La Rioja- <a href="http://www.garnica.one">http://www.garnica.one</a> <a href="mailto:quality@garnica.one">quality@garnica.one</a> Phone number +34 941 51 23 53

## 2. Hazards identification



GHS08: Health hazard

- a) Primary health hazards: The product is not dangerous the way it is sold. However, products resulting from its handling (when cutting or sanding, for example) can be; primary health hazard is wood dust exposure.
- b) Primary exposure ways:
  - **Respiratory tract**: Dust inhalation.  
**Acute health hazards**: Wood dust can cause respiratory irritation, nasal dryness, coughing, sneezing and wheezing as a result of dust inhalation.  
**Chronic health hazards**: Wood dust from certain species may cause respiratory sensitization through prolonged or repeated exposure or high levels of dust exposure. Prolonged wood dust exposure has been related to nasal cancer.  
**Medical conditions generally aggravated by exposure**: Wood dust may aggravate pre-existing respiratory conditions or allergies.
  - **Eye contact**: Due to dust contact with eyes.  
**Acute health hazards**: Wood dust can cause eye irritation.
  - **Skin contact**: Due to dust contact with skin.  
**Acute health hazards**: Wood dust can cause mechanical irritation on skin, resulting in erythema and urticarial.  
**Chronic health hazards**: Wood dust from certain species may cause allergic contact dermatitis in sensitized individuals.  
**Medical conditions generally aggravated by exposure**: Wood dust can aggravate allergies.
  - **Dermal absorption**: Will not occur, under normal use conditions.
  - **Ingestion**: Will not occur, under normal use conditions.
- c) Hazards not otherwise classified:
  - Dust originated when handling the panels is flammable.
  - Panels may release very low formaldehyde emission.

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### 3. Composition/information on ingredients

*The calculation has been based on historical average values.*

Name		Chemical name	CAS number	Content (weight)
Plywood faces	Wood	None	None	61-74%
	Adhesive	Formaldehyde	50-00-0	<0.2%
		Melamine	108-78-1	<0.3%
		Methanol	67-56-1	<0.2%
Core	XPS	Polystyrene	9003-53-6	9-26%
	Core-faces adhesive	Polymethylene polyphenyl polyisocyanate	9016-87-9	<0.5%
		4,4'-Diphenylmethane diisocyanate	101-68-8	<0.2%
Other components below the mandatory reportable levels.				

### 4. First-aid measures

a) Necessary measures, according to routes of exposure:

**Inhalation:** In case of suffering the effects of dust inhalation, remove yourself from the exposure area. Renew air in workspace. In the case of irregular breathing, give artificial respiration. Seek medical advice if irritation, coughing or breathing problems persist.

**Eye contact:** Consider dust in eyes as any other foreign object; do not rub eyes, rinse thoroughly with water to take any dust particle out of the eyes. Seek medical advice if irritation persists.

**Skin contact:** In case of irritation, wash affected area with soap and water. Seek medical advice if rash, irritation or dermatitis persist.

**Dermal absorption:** Not applicable, under normal use conditions.

**Ingestion:** Not applicable, under normal use conditions.

b) Most important symptoms / effects, acute and delayed: See point 2.

c) Indication of immediate medical attention and special treatment needed: Seek medical advice in described situations (point 4.a).

### 5. Fire-fighting measures

a) Suitable extinguishing media: In case of fire, this is a Class A ordinary combustible material. Suitable extinguishing media:


Water, chemical foam and dry chemicals (often contained in class A or multi-purpose fire extinguishers) are suitable.

b) Specific hazards: Avoid raising dust during firefighting works, as this can make a flammable dust cloud arise.

c) Special protective equipment and precautions for fire-fighters: Non special requirements; apply ordinary procedures for a wood fire.

### 6. Accidental release measures

- Solid material: no special measures are necessary.

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## 7. Handling and storage

- Handling and storage conditions as per raw wood; no special attention required for the product.
- Store in a fresh, dry place with good ventilation. Do not expose to a direct flame.
- Avoid long or repeated breathing of wood dust.
- This product can release very low concentrations of formaldehyde gases.
- Wood dust resulting from sawing, sanding, drilling... should be aspirated or collected for recovery or disposal.
- Avoid dusty conditions; good ventilation and regular cleaning are recommended.

## 8. Exposure controls / personal protection

### a) Exposure limits:


Component		CAS number	Agency	Exposure limit	Comments
Plywood faces	Wood	None	OSHA	PEL-TWA 15 mg/m³ PEL-TWA 5 mg/m³	Total dust Breathable fraction
			ACGIH	TLV-TWA 1 mg/m³	Inhalable fraction
			INSST	VLA-ED 2 mg/m³	
	Adhesive	50-00-0	OSHA	PEL-TWA 0.75 ppm	Free formaldehyde resin <0,1%
			ACGIH	TLV-TWA 0.12 mg/m³ TLV STEL 0.37 ppm	
			ECHA	LTEL 0.37 mg/m³ STEL 0.74 mg/m³	
		108-78-1	ECHA	NDA	Inclusion in the Candidate List of very high concern substances.
		67-56-1	OSHA	PEL-TWA 260 mg/m³	
			ACGIH	TLV-TWA 200 ppm TLV STEL 250 ppm	
			ECHA	LTEL 260 mg/m³	
INSST	VLA-ED 266 mg/m³				
Core	Core-faces adhesive	101-68-8	ECHA	LTEL 6 mg/m³ STEL 12 mg/m³	
			INSST	VLA-ED 0.052 mg/m³	
			ACGIH	TLV-TWA 0.051 mg/m³	
No exposure limit values found for minor components of the product.					

### b) Appropriate engineering controls: Not required.

- Implement both general and localized extraction systems, capturing wood dust as close as possible to the point of emission. Design these systems taking into account the trajectory of the dust particles and the speed at which they are generated.
- For operations that generate a lot of dust, isolation within vacuum cabins is recommended. Equipment must have effective suction systems.
- Ensure that the installation has general ventilation, compatible with localized extractions.

### c) Individual protection measures:

- RESPIRATORY PROTECTION: preferably type respiratory mask FFP3 EN 149 must be used during all machining and/or cutting operations and in all operations that involve the presence of suspended dust, such as cleaning machine and areas.
- HAND PROTECTION: Protective gloves are not required, though it is recommended. Fabric or leather gloves are recommended to minimize mechanical damage by chips or mechanical irritation by manipulation of the product.
- EYE PROTECTION: Not required. It is recommended to use security glasses during panel's machining.

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- SKIN PROTECTION: Not required.

## 9. Physical and chemical properties

- Appearance (physical state, color, etc.): solid panel, light greenish brown.
- Odor: NA
- Odor threshold: NA
- pH: NA
- Melting point / freezing point: NA
- Initial boiling point and boiling range: NA
- Flash point: NA
- Evaporation rate: NA
- Flammability (solid, gas): NA
- Upper/lower flammability or explosive limits: NA
- Vapor pressure: NA
- Vapor density: NA
- Relative density: 350-600kg/m<sup>3</sup> (21,85-37,46 lb./ft<sup>3</sup>)
- Solubility (ies): NA
- Partition coefficient: N-octanol/water: NA
- Auto-ignition temperature: 204,4-260°C (399,92-500°F), as wood
- Decomposition temperature: NA
- Viscosity: NA

## 10. Stability and reactivity


- Chemical stability: Stable and non-reactive product. Non dangerous reactions known under normal use conditions
- Conditions to avoid: Avoid direct flame. This product can burn at temperatures over 204,4°C (399,92°F).
- Incompatible materials: Avoid contact with oxidizing agents.
- Hazardous decomposition products: Thermal decomposition products include carbon monoxide, carbon dioxide, aldehydes and organic acids. Combustion smoke can be irritating and toxic.

## 11. Toxicological information

- Acute toxicity: May cause allergic reactions. May cause respiratory irritation.
- Skin corrosion/irritations: Long contact with skin may cause irritation.
- Serious eye damage/eye irritation: Wood dust may cause eye irritation.
- Respiratory or skin sensitization: If dust breathing, this may cause allergy, asthma and respiratory difficulties. May cause allergic skin reaction.
- Germ cell mutagenicity: No information available.
- Carcinogenicity: The International Agency for Research on Cancer (IARC) classifies wood dust and formaldehyde as a human carcinogen.
- Reproductive toxicity: NA
- Specification target internal organs/systemic toxicity:
  - Single exposure: NA
  - Repeated exposure: NA
- Aspiration toxicity: NA.

## 12. Ecological information

- Eco toxicity: This product is not dangerous for the environment.
- Persistence and degradability: There is no information about product degradability.
- Bio accumulative potential: NA
- Mobility in soil: NA
- Other adverse effects: NA

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**13. Disposal considerations**

- Dispose in accordance with local, regional and national regulations.
- Do not release dust from handling in drains, sewers, rivers, etc.

**14. Transport information**

- There is no relevant specific information.

**15. Regulatory information**

- There is no relevant specific information.

**16. Other information**

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