

MYcell

structural core foam

MATERIAL SAFETY DATA SHEET

1. Identification of substance / preparation and of the company

Trade name:	MYcell PVC rigid foam (MYcell040, MYcell060, MYcell080, MYcell100, MYcell130, MYcell200, MYcell060ET, MYcell080ET)
Use of preparation	Structural core in sandwich composites
Manufacturer	Maricell S.r.l.

2. Composition / Information on ingredients

Ingredients	PVC Aromatic polyureas
Blowing agent	CO ₂ N ₂
Further ingredients:	Residues of chemical blowing agent. Organic colour pigments. Stabilisers.

3. Hazards identification

Non-hazardous. Lycell does not constitute any risk to public health if it is used correctly.
Machining produces dust and fumes.
The foam is highly resistive: it could be loaded electrically in particular after machining. It can produce electric sparks.

4. First aid measures

Inhalation of processing fumes:	In case of physiological reaction due to long exposure to fumes: move victim to fresh air. If irritation persists use oxygen or artificial respiration, get medical assistance.
Inhalation of fumes in case of fire:	In case of physiological reaction due to long exposure to fumes: move victim to fresh air. If irritation persists use oxygen or artificial respiration, get medical assistance.
Skin contact:	Wash with water.
Eye contact:	Flush with water if irritation develops. If the irritation persists get medical assistance.
Ingestion:	No specific measures. Get medical assistance if any symptom develops.

5. Fire-fighting measures

Suitable extinguishing media:	water spray, foam, CO ₂ , extinguishing powder.
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Hazardous combustion products:

CO, CO₂, HCl, HCN.

Special protective devices: use respiratory independent protection of recirculated air.

6. Accidental release measures

No special measures required

7. Handling and storage

Handling: Machining will create dust, local over-heating during machining can create fumes.
Use ventilating sistem with suction and fresh air.

Storage: Stow indoor. Danger of electrostatic charges when stored in a very dry area.

8. Exposure control / personal protection

Exposure limit values:

Dust	Source	Value type	value (mg/m3)	Remarks
	SUVA	MAC values	10	Inhalable particles

Gas / Vapours	Source	Value type	value (mg/m3)	Remarks
Tetramethylsuccinonitrile	SUVA	MAC values	3	
Methacrynile	SUVA	MAC values	3	

Exposure control: Use gloves, protective goggles and dust mask.
Use of dust and gas extraction equipment when sawing, milling, grinding and sanding. The workplace must be continuously supplied with fresh air.
While thermoforming a respiratory protection is recommended.
If the work place is not sufficiently ventilated the use of respiratory protection is compulsory in case of long exposure.

9. Physical and chemical properties

Physical state / form: Polymer foam sheet with visible cell structure.

Density: 30 - 400 kg/m³

Colour: Different colours identifies different densities.

Glass transition temperature: 65 to 80 °C ISO 537

Decomposition temperature: > 220 °C

Flash ignition temperature: > 380 °C

Solubility: Insoluble in water, sea water, acids, alkalis, aliphatic hydrocarbons
Soluble in Aromatic hydrocarbons, ketones, clorinated hydrocarbons.

10. Stability and reactivity

General information: Stable under normal conditions.

Reaction to fire: M2F5 (NFX70/100 e NF 16/101)
Class 2 (CSE-RF3/77)

Conditions to avoid: High temperatures (> 180 °C).

Material to avoid: Not applicable.

Dangerous decomposition products:
Tetramethylsuccinonitrile (TMSN),
Metacrylnitrile;
HCl, CO₂, CO, small amount of HCN

11. Toxicological information

Toxicological tests: No data available.

Experience with man:	Skin contact:	no symptoms known;
	Eye contact:	dust may cause irritation;
	Inhalation:	dust and fumes may cause irritation of respiratory tracts; Dizziness, nausea and headaches may occur if processing (sawing, grinding or thermoforming) is performed without sufficient ventilation and respiratory protection over several hours in poorly ventilated areas.
	Ingestion:	No symptom known.

12. Ecological information

Ecotoxicity:	The total amount of heavy metals is less than 100 mg/kg [ppm].
Mobility:	Not soluble in water, therefore effects on groundwater are unlikely.
Persistence and degradability:	Biologically not degradable.

13. Disposal consideration

The product can be disposed together with domestic and industrial waste.
Refer to the local legislations.

14. Transport information

Railroad	RID	No restriction
Road	ADR	No restriction
Sea	IMDG Code	No restriction
Air	ICAO -TI/ATA - DGR	No restriction
UN-Classification		Not required

15. Regulatory information

The product does not require marking and labelling according the European Directive 67/548/CEE.

16. Other information

This issued of the material safety data sheet replaces the previous version 1.1 released on 02/04/2008.
The information herein are based on our present knowledge. They are not intended as any guarantee of specific properties.
It is issued in respect of safety requirements and does not purpose to provide information on the quality of the product.
Local and international legislation and normative are to be followed by the final user of the product.