

SAFETY DATA SHEET

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1 Product and company identification

Name of material: MARMOL COMPAC

Product Description: Natural marble agglomerate.

Company name: MARMOL COMPAC S.A.

Travessera d'Albaida, 1
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Emergency
hotline: (Spanish Toxicology Information:+ 91 562 04 20)

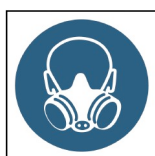
2 Hazard identification

Material machining operations (cutting, polishing and other mechanised treatments) may cause irritation in eyes and the respiratory tract due to dust, so wet machining processes are recommended.

If not possible, precautions should be taken by using extraction systems located over the source of dust emission as a collective protection measure and workers must use individual protection equipment (detailed in the contents of this safety sheet).



STOT RE1



PREVENTION P260: Do not breathe dust generated in cutting and polishing processes. P264: Wash hands and face thoroughly after handling. P270: Do not eat, drink or smoke when using this material. P284: Wear respiratory protection type P3.

FIRST-AID MEASURES P314: Get Medical advice/attention if you feel unwell after using this material. P501: Dispose of waste material as per local regulations.

3 Composition/component information

General description of components: Components: %, Marble -92, Unsaturated orthophthalic polyester resin -7, Colorants -0.2

Material certifications: Greenguard Environment Institute.

4 First-aid measures

Finished material requires no special first-aid measures. Nevertheless, during the manufacturing process, pay special attention to:



Contact with eyes: Rinse cautiously with water. Contact with skin: wash with soap and water. If inhaled: guarantee appropriate ventilation. If a serious reaction is noticed, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if condition persists. If swallowed: Get medical advice/attention.

5 Fire-fighting measures

Fire resistance classed as: A2fl- 51

Fire Extinguishing Methods: Use any appropriate method available in the work area for combustible materials. Multi-purpose dry-powder fire extinguishers are recommended.

Personal Protection Equipment: Depending on the fire zone.

6 Accidental spill measures

This material offers no spill hazards.

7 Handling and storage

Manual Handling

Users are responsible for performing a Hazard Evaluation in accordance with local Worker Safety Laws. Consequently, handling systems should be safe.

Recommendations:

- Use safe handling systems (cranes, hoists, slings, clamping devices, etc.) that are approved and certified. Slings must be protected against cuts as this material can conceivably cut sling materials.
- Use the following personal protection equipment during material storage operations: helmet, safety shoes, protective goggles and gloves.

Work Environment

The use of water-cooled work tools is recommended to prevent dust emissions in material machining operations (cutting, polishing and other treatments). Complement with localised extraction systems over the dust emission source and/or general ventilation as collective protection measures.

Material Storage

This material must be stored safely, following the instructions of the storage system manufacturer to prevent possible incidents. Avoid strong impacts that might break the material.

8 Exposure controls/personal protection

Users are responsible for performing an evaluation of the risk of exposure to dust in accordance with local Worker Safety Laws.

Technical control and worker safety systems must be used, preferably personal protection equipment (PPEs).

Environmental Limits in mg/m³ (8h exposure)

Country/Authority	Inert dust	Quartz (q)	Cristobalite (q)	Tridymite (t)
Austria / I	6	0.15	0.15	0.15
Belgium / II	3	0.1	0.05	0.05
Bulgaria / III	4	0.07	0.07	0.07
Cyprus / IV	/	10k/Q ¹	/	/
Czech Republic / V		0.1	0.1	0.1
Denmark / VI	5	0.1	0.05	0.05
Estonia		0.1	0.05	0.05
Finland / VII		0.2	0.1	0.1
France / VIII	5 or 25 k/Q			
France / IX	5	0.1	0.05	0.05
Germany / X	3	/ ²	/	
Greece / XI	5	0.1	0.05	0.05
Hungary		0.15	0.1	0.15
Ireland / XII	4	0.05	0.05	0.05
Italy / XIII	3	0.025	0.025	0.025
Lithuania / XIV	10	0.1	0.05	0.05
Luxembourg / XV	6	0.15	0.15	0.15
Malta / XVI³	/	/	/	/
Netherlands / XVII	5	0.075	0.075	0.075
Norway / XVIII	5	0.1	0.05	0.05
Poland		0.3	0.3	0.3
Portugal / XIX	5	0.025	0.025	0.025
Romania/XX	10	0.1	0.05	0.05
Slovakia		0.1	0.1	0.1
Slovenia		0.15	0.15	0.15
Spain / XXI	3	0.1	0.05	0.05
Sweden / XXII	5	0.1		0.05
Switzerland / XXIII	6	0.15	0.15	0.15
United Kingdom / XXIV	4	0.1	0.1	0.1

¹ Q : quartz percentage – K=1

² Germany has no more OEL for quartz, cristobalite, tridymite. Employers are obliged to minimise exposure as much as possible, and to follow certain protective measures.

³ When needed, Maltese authorities refer to values from the UK for OELVs which do not exist in the Maltese legislation.

United States

Country	USA
Substance	Total Respirable Dust
OSHA PEL	Total Dust (30 mg/m ³) Respirable Fraction (10 mg/m ³)
ACGIH TLV	0.025 mg/m ³ (8 hr TWA)

In the case of Spain, more specifically:

	VLA-ED	Reference criteria
Particles, respirable fraction	3 mg/m ³	RD 374/2001 - VLA INSHT
Crystalline silica, respirable fraction	0.1 mg/m ³	RD 374/2001 - VLA INSHT

Dust Exposure Controls during Manufacturing and Installation.

The manufacturer recommends methods involving the use of water in processing and machining this material in order to minimise the effects of dust generated during manufacturing (water-cooled work equipment).

Long-term exposure to dust from cutting and processing without the use of suitable protection may cause respiratory diseases.

Exposure to dust can be monitored and controlled using suitable control methods such as:

- Machinery and tools using wet processes.
- Natural and/or mechanical ventilation systems that guarantee suitable air renewal levels in the workplace.
- Cleaning and maintenance. Use aspiration and cleaning systems that use water. Avoid dry sweeping and the use of compressed air, which set dust in motion. Implement preventive maintenance programmes to guarantee suitable operating and cleaning conditions for work equipment.
- Respiratory protection is for type P3 particulates according to EN 143:2001 and its reviews 143/AC EN 2002 and EN 2005 2005143/AC, including wet processes in order to reduce dust during product preparation.

Hand protection. The use of gloves is recommended to avoid cutting hazards during handling.

Eye protection. The use of eye protectors or goggles is recommended pursuant to standard EN166: 2001.

- Skin protection. Skin protection is not necessary, but the use of suitable clothing to prevent contact with skin is recommended. Wash hands and face with soap and water to eliminate dust before breaks and at the end of shifts.
- Work clothing. Do not clean using compressed air. Use vacuum cleaning methods.

In accordance with relevant laws and regulations, any materials failing to comply with quality specifications or reject material must be disposed of in inert waste landfills.

9 Physical and chemical properties

Aspect:	Solid.
Colour:	Range of commercial colours.
Odour:	Odourless.
pH:	N/A.
Boiling Point:	
Melting Point:	
Flammability:	A2fl s1 (UNE EN ISO 9239-1:2002 & ISO 1716:2002)
Density:	2.6 g/cm ³ (25°C)
Solubility in water:	Insoluble
Solubility with other solvents:	Insoluble

For further information on technical properties, see the technical sheet or visit www.compac.es

10 Stability and reactivity

Chemical stability:	Stable under normal conditions.
Conditions to be avoided:	None known.
Reactivity with other materials:	Alkaline and acid solutions react with this material. In case of contact, remove immediately and clean the affected area.
Hazardous decomposition products:	None.

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11 Toxicological Information (Spain):

Toxicological Information Phone in Spain: +34 91 562 04 20

Toxicology:	Non-toxic.
Effect on skin:	None.
Specific effects:	None.
Chronic effects:	None.

12 Ecological information

Ecotoxicity:	No adverse effects on the environment.
Mobility:	Non-volatile material.
Persistence and degradability:	Insoluble in water. No information available on biodegradability.
Potential bio-accumulation:	No information available.

13 Considerations on dispositions

Pursuant to European Directives 91/156/CEE and 1999/31/CEE, Spanish Law 10/98 (21 April), and royal decree RD 1481/2001 (27 December), products not complying with quality standards or rejected for other reasons may be disposed of in landfills for non-hazardous waste.

Mármol Compac packaging shall be disposed of in accordance with local environmental regulations, and in any case can be deposited in plastic and/or paper collection bins for subsequent recycling.

14 Transport-related information

This material is not classified as dangerous according to air, sea and land transport regulations.

UN number	Not available	Sea transport	
Packaging Group	None	IMDG/IMO	No restrictions
		Air transport	
ADR/RID	No restrictions	ICAO/IATA	No restrictions
TPC/TPF	No restrictions	ICAO/IATA	No restrictions

USA		
ADR/RID/IMO/ICAO/US DOT	Hazard Class	Not regulated
	ID Number	Not regulated
	Packaging Group	Not regulated

15 Regulatory information

This Safety Data Sheet (SDS) has been drawn up in accordance with CLP Regulation No. 1272/2008.

16 Other information

Consult Mármol Compac S.A. before using or supplying this material for uses other than those indicated above.

The information contained in this document is the result of current knowledge up to its review date. Nevertheless, we cannot guarantee these recommendations or suggestions when specific conditions of use are outside of our control.

It is the responsibility of the user of our materials to ensure that this material complies with any specific local laws or regulations. In no case does the information contained in this Safety Data Sheet constitute a guarantee of specific properties or the establishment of a relation of a contractual nature.

For further information, follow the instructions of the Good Practices Guide for manufacturing published by the manufacturer, available at www.compac.es