



# MSDS - SAFETY DATA SHEET

This document is compliant with the Italian Legislative Decree no. 65 from 15th March 2003

Stone Italiana recomposed quartz slab is an inert product due to its features and for this reason it is not harmful either for humans or for the environment, depending on its use. People operating in this sector must protect their health by using all personal protective equipment (PPE) during wet or dry manufacturing process.

1. Product Identification		
1.1. Product	Recomposed Quartz	REACH Registration No: exempt under Article 3, paragraph 3 of REACH Regulation
1.2. Use	Floorings – Wall claddings – Benchtops – Custom-made materials – cut-to-size items – furnishing accessories	
1.3. Manufacturer	<b>Stone Italiana S.p.A.</b>	<i>Registered Office</i> Via Lavagno, 213 37040 Zimella - Vr  <i>Production sites:</i> Via Lavagno, 213 37040 Zimella - Vr Tel. +39 0442 715 715 Fax +39 0442 715 000  Via Trieste, 33 34070 Villesse - Go Tel. +39 0481 917 11 Fax +39 0481 911 33
1.4. Emergency numbers	 	+39 0442 715 715  +39 0442 715 000

## 2. Hazards Identification

Stone Italiana slabs do not carry any risks associated with CE Regulation no. 1272/2008, therefore **they are not identified as dangerous product.**



However during the manufacturing process these can generate dust containing **respirable crystalline silica**. This element, in case of prolonged exposure, causes irreversible damage to the lungs, such as silicosis. **During cutting, honing and polishing phases, all operators must take adequate safety measures.**

Stone Italiana S.p.a.	Sede Legale – Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Trieste, 33 34070 Villesse (Trieste)
		Tel. 0442 715 715 Fax 0442 715 000	Tel. 0481 917 11 Fax 0481 911 33
Data 02/11/2015	Revisione 11- QUARZO	Data stampa 26/11/2015	Pagina 1 di 10

2.1.	In case of dust diffusion during dry or wet manufacturing process	Dangerous when inhaled		H373 Causes lungs damage in case of prolonged or repeated inhaling
				X <sub>n</sub> R 20 Hazardous when inhaled X <sub>n</sub> R 48 Risk of serious damage to the health in case of prolonged exposure
2.2.	Dangerous in case of contact with eyes	Crystalline silica can cause corneal abrasion		P262 – Avoid contact with eyes, skin or clothes. P280 – Wear gloves/protective clothing. Protect eyes/face.
				X <sub>i</sub> 36/37 Irritating for eyes and airways

### 3. Composition / Information on Ingredients

**The finished material is a solid, compact agglomerated stone.**

	Substance	Component	CAS No.	%	Hazards identification
3.1.	Silica Sands - Quartzes*	Crystalline silica SiO <sub>2</sub>	14808-60-7	90-93	X <sub>n</sub> R48 - X <sub>n</sub> R20 H373
3.2.	Colouring Pigments	Inserted in the slab			
3.3.	Polyester Resins	Inserted in the slab			
3.4.	Catalysts	Inserted in the slab			
3.5.	Accelerator	Inserted in the slab			
3.6.	Special inserts:				
	3.6.1. Glass				
	3.6.2. Mirror				
	3.6.3. Glitter				
	3.6.4. Mother-of-pearl				
	3.6.5. Gems				
	3.6.6. Silicon metal				
	3.6.7. Various Stone Grits				

Stone Italiana S.p.a.	Sede Legale – Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Trieste, 33 34070 Villesse (Trieste)
		Tel. 0442 715 715 Fax 0442 715 000	Tel. 0481 917 11 Fax 0481 911 33
Data 02/11/2015	Revisione 11- QUARZO	Data stampa 26/11/2015	Pagina 2 di 10

#### 4. First Aid Measures



4.1.	After inhaling:	If a large amount of dust has been inhaled, take the person to fresh air. Consult a doctor if the irritation persists.
4.2.	After contact with eyes	If this is caused by dust originating from the cutting or honing process, open your eyes and rinse accurately with water or an appropriate product. Remove contact lenses, if you are wearing them. Consult a doctor if the irritation persists.
4.3.	Contact with skin	Prolonged contact can cause skin dryness. Rinse accurately with soap and water.
4.4.	After ingestion	In case of dust ingestion, rinse the oral cavity and consult a doctor.
4.5.	Actions to be avoided	None
4.6.	Protection for first-aiders	None
4.7.	Instructions for doctor	None in particular





#### 5. Fire Safety Measures







The material is not flammable (A2fl -s1; A2 - s1, d0 Class ) EN 13501-1

5.1.	Adequate fire equipment	All fire equipment
5.2.	Non adequate fire equipment	None
5.3.	Possible hazards due to combustion	It can produce fumes or other dangerous elements due to combustion (mainly carbon monoxide, carbon dioxide)

**6. Accidental Release Measures**











6.1.	The finished material is a solid compact agglomerated stone.	
6.2.	The product cannot cause emissions	<p>The material is certified Greenguard and Grenguard Gold therefore it is compliant to the regulations for quality of indoor air as for VOC (Volatile Organic Compounds)</p>  CERT. N. 9754-420 2010 – 2016  CERT. N. 9754-410 2010 – 2016  CERT. N. SCS-FS-03636 <p>The material does not allow the migration of harmful substances from slab surface to food</p>  CERT. N. C0041679-01 201 <small>See official listing</small>

**7. Handling & Storage**

7.1.	Handling precautions	<p>The fabricator is responsible for evaluating risks to allow for an appropriate manual or mechanical handling of the product. For manual handling the use of the following PPE is necessary:</p>  <p>For mechanical handling the use of the following PPE is necessary</p>  <p>Check ropes, slings and chains used for lifting</p>  <b>CONTROLLARE FUNI E CATENE prima dell'uso</b> 
7.2.	Storage	<p>Slabs must be stored based on the following arrangement: Polished slab against polished slab</p>

	Raw slab against raw slab The polished top can be damaged if not packaged or if wrongly handled or transported. Slabs must be stored in a protected environment and not exposed to sun's rays
--	---

## 8. Exposure Control/Personal Protection

8.1.	During wet and dry cutting phases:	Apply all measures to contain dust diffusion.
8.2.	Collective Protection Measures	The fabricator is responsible for evaluating risks associated with staff's exposure to dusts. Local dust collector system for dust originating from cutting and finishing processes.
8.3.	Personal Protection Measures:	
8.3.1.	Respiratory Protection	    Filtering facepiece (UNI EN 149) FFP3 Anti dust filter face piece: Filtering dust mask/half mask or full face mask (UNI EN 143) P3 class
8.3.2.	Eye Protection	  Glasses
8.3.3.	Leg Protection	 Steel-toe boots "minimum" protection S1
8.3.4.	Hands Protection	  Gloves that enable material processing avoiding crushes, cuts and abrasions
8.3.5.	Body Protection	 Protective suit for inert dust
8.3.6.	Technical Measures	Local dust collector system


9 1 cm thickness – chemical and physical features														
		Regulation	Unit of measure	Recomposed Quartz										
9.1.	Appearance			Solid body										
9.2.	Odour			Odourless										
9.3	Colour			Depending on commercial range										
9.3.	Water absorption	EN 14617-1:2013	%	$W_4 \leq 0,05$										
9.4.1	Flexural strength <b>RECOMPOSED QUARTZ</b>	EN 14617-2:2008	MPa	$F_4 \geq 40,0$										
	Flexural strength <b>RECOMPOSED QUARTZ WITH INLAYS</b>	EN 14617-2:2008	MPa	$25,0 \leq F_3 < 40,0$										
9.5.	Abrasion resistance Groups 6-7	EN 14617-4:2012	mm	$33,0 \geq A_3 > 29,0$										
	Abrasion resistance Other Groups	EN 14617-4:2012	mm	$A_4 \leq 29,0$										
9.7.	Chemical resistance <b>QUARTZ AND QUARTZ WITH INLAYS</b>	EN 14617-10:2012	min $C_1$ max $C_4$	$C_4$										
	Chemical resistance <b>QUARTZ AND QUARTZ WITH MOTHER OF PEARL AND MARBLE INLAYS</b>	EN 14617-10:2012	min $C_1$ max $C_4$	$C_1$										
9.8.	Linear thermal expansion coefficient	EN 14617-11:2005	1/°C	$\alpha = 19-26 \times 10^{-6}$										
9.9.	Fire resistance (LAPI S.p.A. N°0987)	EN 13501-1:2009		A2fl-s1										
9.10.	Thermal conductivity (**) value as per chart	EN 10456:2008	W/(mK)	1,28										
9.11	Thermal shock resistance	EN 14617-6:2012		$\Delta m = -0,08\%$										
9.12.	Tactility/Visibility			NPD										
9.13.	Slipperiness • Gloss • Matt • Jaipur 14.15, Grain, Lunare • Juta, Rocface	EN 14231:2004	SRV	<table border="1"> <tr> <td>Dry</td> <td>Wet</td> </tr> <tr> <td>• 42-47</td> <td>• 3-5</td> </tr> <tr> <td>• 38-42</td> <td>• 6-7</td> </tr> <tr> <td>• 44-56</td> <td>• 8-14</td> </tr> <tr> <td>• 68-80</td> <td>• 23-35</td> </tr> </table>	Dry	Wet	• 42-47	• 3-5	• 38-42	• 6-7	• 44-56	• 8-14	• 68-80	• 23-35
Dry	Wet													
• 42-47	• 3-5													
• 38-42	• 6-7													
• 44-56	• 8-14													
• 68-80	• 23-35													
9.14.	Electrical Resistivity	EN 14617-13:2013	$\Omega m$ $\Omega$	<p>pvolume <math>&gt; 4 \cdot 10^{11}</math></p> <p>psurface <math>&gt; 4 \cdot 10^{11}</math></p>										
9.15.	Impact resistance	EN 14617-9:2005	Joule	2										
9.16.	Dimensional stability (300x300x10mm)	EN 14617-12:2012	mm	Class A										

### 10. Stability & Reactivity

10.1	Hazardous Decomposition Products	The product stays chemically stable under standard storage and temperature conditions. Decomposition products are not known. The material does not develop exothermic reactions.
10.2	Chemical stability	
10.3	Incompatibility with other materials	

Stone Italiana S.p.a.	Sede Legale – Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Trieste, 33 34070 Villesse (Trieste)
		Tel. 0442 715 715 Fax 0442 715 000	Tel. 0481 917 11 Fax 0481 911 33
Data 02/11/2015	Revisione 11- QUARZO	Data stampa 26/11/2015	Pagina 6 di 10

## 11. Toxicological Information

11.1.	Acute toxicity and local effects:	Airways irritation
11.2.	Chronic toxicity (silicosis):	<p>Prolonged exposure to dry quartz dust can cause irreversible damage (silicosis)</p>  <p><b>Crystalline Silica ACGIH – respirable limit 0,025 mg/m<sup>3</sup></b></p>

Occupational Exposure Limits in mg/m <sup>3</sup> 8 hours TWA - Respirable dust - in EU 271 + Norway & Switzerland					
Country/Authority (See caption p.2)		Inert dust	Quartz (q)	Cristobalite (c)	Tridymite (t)
Austria	I	5	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/Q2	/	/
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		0,05	0,05	0,05
France	VIII		5 or 25k/Q		
France	IX	5	0,1	0,05	0,05
Germany	X	3	<sup>β</sup>	/	/
Greece	XI	5	0,1	0,05	0,05
Hungary			0,15	0,1	0,15
Ireland	XII	4	0,1	0,1	0,1
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	XVI	4	/	/	/
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	0,05
Switzerland	XXIII	6	0,15	0,15	0,15
United Kingdom	XXIV	4	0,1	0,1	0,1

11.3

1 Missing information for Latvia. – To be completed.  
2 Q : quartz percentage – K=1  
3 Germany has no more OEL for quartz, cristobalite, tridymite. Employers are obliged to minimize exposure as much as possible, and to follow certain protective measures.  
4 When needed, Maltese authorities refer to values from the UK for OELVs which do not exist in the Maltese legislation.

Stone Italiana S.p.a.	Sede Legale – Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Trieste, 33 34070 Villesse (Trieste)
		Tel. 0442 715 715 Fax 0442 715 000	Tel. 0481 917 11 Fax 0481 911 33
Data 02/11/2015	Revisione 11- QUARZO	Data stampa 26/11/2015	Pagina 7 di 10

Caption			
Country		Adopted by/Law denomination	OEL Name (if specific)
Austria	I	Bundesministerium für Arbeit und Soziales	Maximale ArbeitsplatzKonzentration (MAK)
Belgium	II	Ministère de l'Emploi et du Travail	
Bulgaria	III	Ministry of Labour and Social Policy and Ministry of Health. Ordinance n°13 of 30/12/2003	Limit Values
Cyprus	IV	Department of Labour Inspection. Control of factory atmosphere and dangerous substances in factories, Regulations of 1981.	
Czech Republic	V	Governmental Directive n°441/2004	
Denmark	VI	Direktoratet for Arbejdstilsynet	Threshold Limit Value
Finland	VII	National Board of Labour Protection	Occupational Exposure Standard
France	VIII	Ministère de l'Industrie (RGIE)	Empoussiérage de référence
	IX	Ministère du Travail	Valeur limite de Moyenne d'Exposition
Germany	X	Bundesministerium für Arbeit	Maximale ArbeitsplatzKonzentration (MAK)
Greece	XI	Legislation for mining activities	
Ireland	XII	2011 Code of Practice for the Safety, Health & Welfare at Work (CoP)	
Italy	XIII	Associazione Italiana Degli Igienisti Industriali	Threshold Limit Values (based on ACGIH TLVs)
Lithuania	XIV	Dėl Lietuvos higienos normos HN 23:2001	Ilgalaikio poveikio ribinė vertė (IPRV)
Luxembourg	XV	Bundesministerium für Arbeit	Maximale ArbeitsplatzKonzentration (MAK)
Malta	XVI	OHSA – LN120 of 2003, www.ohsa.org.mt	OELVs
Netherlands	XVII	Ministerie van Sociale Zaken en Werkgelegenheid	Publieke grenswaarden <a href="http://www.ser.nl/en/oel_database.aspx">http://www.ser.nl/en/oel_database.aspx</a>
Norway	XVIII	Direktoratet for Arbejdstilsynet	Administrative Normer (8hTWA) for Forurensing i Arbeidsmiljøet
Portugal	XIX	Instituto Portuges da Qualidade, Higiene & Safety at Workplace NP1796:2004	Valores Limite de Exposição (VLE)
Romania	XX	Government Decision n° 355/2007 regarding workers' health surveillance. Government Decision n° 1093/2006 regarding carcinogenic agents (in Annex 3: Quartz, Cristobalite, Tridymite).	OEL
Spain	XXI	Instrucciones de Técnicas Complementarias (ITC) Orden ITC/2585/2007	Valores Limites
Sweden	XXII	National Board of Occupational Safety and Health	Yrkeshygieniska Gränsvärden
Switzerland	XXIII		Valeur limite de Moyenne d'Exposition
United Kingdom	XXIV	Health & Safety Executive	Workplace Exposure Limits

11.4

## 12 Ecological Information



12.1


Use the product according to good working practice, avoiding to throw it away irresponsibly. This product is very resistant and non-biodegradable.

Stone Italiana S.p.a.	Sede Legale – Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Trieste, 33 34070 Villesse (Trieste)
		Tel. 0442 715 715 Fax 0442 715 000	Tel. 0481 917 11 Fax 0481 911 33
Data 02/11/2015	Revisione 11- QUARZO	Data stampa 26/11/2015	Pagina 8 di 10



**13 Comments on Disposal**



13.1	PRODUCT EUROPEAN WASTE CODE:	<b>R</b> 01 04 13 Waste originated from stone processing, different from the one under item 01 04 07 (Verify regulations, local legislation on waste management). An annual waste characterization analysis must be carried out.
13.2	PACKAGING EUROPEAN WASTE CODE:	 STONE ITALIANA material packaging will have to be disposed of in accordance with local and national regulations: paper and cardboard packaging plastic packaging wood packaging unsorted packaging

**14 Transport Information**










14.1	ADR/RID	Product not classified as dangerous goods
14.2	IMDG/IMO	Product not classified as dangerous goods
14.3	ICAO/IATA	Product not classified as dangerous goods

**15 Regulation Information**

15.1	CLP Regulation (EC) n° 1272/2008
------	----------------------------------

Stone Italiana S.p.a.	Sede Legale – Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Lavagno, 213 37040 Zimella (Verona)	Stabilimento Via Trieste, 33 34070 Villesse (Trieste)
		Tel. 0442 715 715 Fax 0442 715 000	Tel. 0481 917 11 Fax 0481 911 33
Data 02/11/2015	Revisione 11- QUARZO	Data stampa 26/11/2015	Pagina 9 di 10

16 Other information

16.1		The above information, which is based on the present level of our knowledge and experience, describes our product in view of possible H&S requirements.
16.2		Fabricators are responsible for taking all the necessary actions in order to follow regulations regarding H&S and environment protection. Fabricators are always responsible for respecting the terms of regulations.
16.3		The instructions given refer to the product used for its ordinary duty as described in point 1.
16.4		The information included in this Safety Data Sheet is just a description on how to safely use the product and do not represent any guarantee on the features of the product.
16.5		<p>We recommend using wet processing systems and/or dust control systems (aspirators).</p> <p> In case of <u>wet and dry processing</u>, we remind you that respirable dust can harm your health</p> <p> Xn</p> <p>R20 Harmful by inhalation. R48 Danger of serious damage to health by prolonged exposure to inhalation.</p> <p> Xi</p> <p>36/37 Eyes and airways irritating</p> <p> H373 Causes lungs damage in case of prolonged or repeated inhaling</p> <p></p> <p>P262 – Avoid contact with eyes, skin or clothes. P280 – Wear gloves/protective clothing. Protect eyes/face.</p>