1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name	TALOSTONE® - QUARTZ SURFACES
Synonyms	

1.2 Uses and uses advised against

Product Use	QUARTZ SURFACING PRODUCTS FOR INDOOR USE

1.3 Details of the supplier of the product

Supplier name	TALOS STONE PTY LTD
Address	97 Jedda Road, Preston, NSW, 2170, AUSTRALIA
Telephone	02 8783 0600
Email	info@talostone.com.au
Website	https://talostone.com.au/

1.4 Emergency telephone numbers

Emergency	(0)405 451 858

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

2.3 Other hazards

The product is not hazardous as supplied. However, hazards are associated with processing, including the fabrication workshop and upon installing and removing/demolishing slabs, as respirable crystalline silica quartz dust may be generated. Operations such as cutting, drilling, sawing, routing, grinding, chipping, polishing, sanding etc. can generate dust, and adequate

ventilation and wet processes are recommended to keep exposure to airborne dust below acceptable limits. Overexposure to airborne quartz can cause silicosis (non-reversible scaring of the lung tissue) with a risk of cancer. DRY cutting, drilling, sawing, sanding etc are prohibited!

DANGER!

Category 1A (Carcinogenicity) (H334, H350, H372)

Category 3 (Respiratory tract irritation) (H335)

Hazard Statement:

(H334) May cause allergy or asthma symptoms or breathing difficulties if inhaled

(H350) May cause CANCER (inhalation)

(H372) Causes damage to lungs through prolonged or repeated exposure (inhalation)

(H335) May cause respiratory tract irritation



Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260+P261 Do not breathe dust generated during the Fabrication Process, installation and removing/demolishing processes.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content %
PIGMENT(S)	-	-	Remainder
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	<93%
CRISTOBALITE	14464-46-1	238-455-4	<50%
TITANIUM DIOXIDE	13463-67-7	236-675-5	<5%
GLASS	-	-	<50%
POLYESTER RESIN(S)	-	-	<15%
ADDITIVE(S)	-	-	<5%
1,3-ISOBENZOFURANDIONE, POLYMER WITH 2,5-FURANDIONE AND 2,2'-OXYBIS[ETHANOL]	26123-45-5	-	Not Available
TRIDYMITE	15468-32-3	-	Not Available

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye (Dust exposure) Flush gently with running water, irrigating under eyelids. Seek medical attention if irritation develops.

Inhalation (Dust exposure) If inhaled remove from contaminated area. Apply artificial respiration if not breathing.

Skin (Dust exposure) Gently flush affected areas with water. Seek medical attention if irritation develops.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Due to product form and application, ingestion is considered unlikely.

4.2 Most important symptoms and effects, both acute and delayed

Chronic over exposure to silica quartz dust may result in silicosis (lung disease). Principal symptoms of silicosis are coughing and breathlessness. Crystalline silica is classified as carcinogenic to humans (IARC Group 1). However, due to the product form (solid bench-top), over exposure via inhalation is not anticipated with normal use, unless cutting, grinding, machining, etc dry/set product.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated. May evolve silicon compounds, carbon oxides, titanium oxides, metal oxides and hydrocarbons when heated to decomposition. Dust may form combustible mixtures with air.

5.3 Advice for firefighters

No fire or explosion hazard exists.

5.4 Hazchem code

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Moisten with water to prevent a dust hazard and place in sealable containers for disposal or reuse. Avoid generating dust.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and protected from physical damage when not in use. Suppress dust with water if stored in bulk.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
Cristobalite	SWA [AUS]	--	0.1	--	--
Quartz (respirable dust)	SWA [AUS]	--	0.1	--	--
Titanium dioxide (a)	SWA [AUS]	--	10	--	--

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Wet where possible. Maintain dust levels below the recommended exposure standard.

PPE

Eye / Face If cutting or sanding with potential for dust generation, wear dust-proof goggles.

Hands Wear leather or cotton gloves.

Body Wear safety boots.

Respiratory If cutting or sanding with potential for dust generation, wear a Class P2 (Particulate) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	COLOURED SOLID
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Specific gravity	2.30
Solubility (water)	NOT AVAILABLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

9.2 Other information

Bulk density	2360 kg/m^3 (Approximately)

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid shock, friction and heavy impact.

10.5 Incompatible materials

Incompatible with strong acids (e.g. hydrochloric acid).

10.6 Hazardous decomposition products

May evolve silicon compounds, carbon oxides, titanium oxides, metal oxides and hydrocarbons when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
TITANIUM DIOXIDE	5000 mg/kg (rat)	--	3.43 - 6.82 mg/L air (rat)

Skin Contact may result in mechanical irritation, redness, rash and dermatitis.

Eye Contact may result in mechanical irritation, lacrimation and redness.

Sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Mutagenicity	Not classified as a mutagen.
Carcinogenicity	The product is not hazardous as supplied. However, hazards are associated with processing, including the fabrication workshop and upon installing and removing/demolishing slabs. Operations such as cutting, drilling, sawing, routing, grinding, chipping, polishing, sanding etc. can generate dust, and adequate ventilation and wet processes are recommended to keep exposure to airborne dust below acceptable limits. Dust created when the product is cut, grinded and machined may contain crystalline silica some of which may be respirable (particles small enough to go into deep parts of the lung when breathed in). Crystalline silica is classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk. Titanium dioxide is classified as possibly carcinogenic to humans (IARC Group 2B).
Reproductive	Not classified as a reproductive toxin.
STOT - single exposure	Over exposure may result in irritation of the nose and throat, with coughing.
STOT - repeated exposure	The product is not hazardous as supplied. However, hazards are associated with processing, including the fabrication workshop and upon installing and removing/demolishing slabs. Operations such as cutting, drilling, sawing, routing, grinding, chipping, polishing, sanding etc. can generate dust, and adequate ventilation and wet processes are recommended to keep exposure to airborne dust below acceptable limits. Dust created when the product is cut, grinded and machined may contain crystalline silica some of which may be respirable (particles small enough to go into deep parts of the lung when breathed in). Repeated overexposure to crystalline silica for extended periods may result in silicosis. Repeated exposure to titanium dioxide may result in slight lung fibrosis.
Aspiration	This product does not present an aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The substance is inert there is no evidence of significant toxicity.

12.2 Persistence and degradability

Being inorganic, the substance will not biodegrade.

12.3 Bioaccumulative potential

The substance is inert and will not be absorbed and accumulate in tissues.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal	Reuse where possible. No special precautions are normally required when handling this product.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

Hazchem code None allocated.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

Inventory listings AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m3	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit

pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline)
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

The information herein is believed to be up-to-date and accurate. However, Talostone® cannot guarantee the recommendations or suggestions herein, as the material conditions of use are beyond our control. Under no circumstances does the data contained in this Safety Data Sheet constitute a guarantee of specific properties other than such properties explicitly mentioned in this SDS, or create any contractual relationship. It is the exclusive responsibility of the recipient of our material to check the corresponding laws, rules and regulations prior to using the product and to comply with them in all respects. The user of the product only is responsible for determining the suitability of our products for its particular application.

The contents of this Safety Data Sheet must not be interpreted as a recommendation to use any product in violation of the laws or safety practices.

[END OF SDS]