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MOULDING AND CASTING MATERIALS

Web

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BRITISH UNITED INDUSTRIES (VIC) PTY LTD ATF BYRNE HUGHES FAMILY BUSINESS TRUST TRADING AS A TO Z SOLID SOLUTIONS ACN 006 303 591

## SAFETY DATA SHEET

Classified as hazardous according to criteria of WorkSafe Australia

### Silica Flour

#### IDENTIFICATION

Product Name: Silica Flour  
Other Names: Quartz Flour, Quartz, silicondioxide.  
UN No: None allocated.  
Hazchem Code: None allocated.  
Dangerous Goods Class: None allocated.  
Sub Risk Class: No Subsidiary Risk.  
Packaging Group: None allocated.  
EPG: None allocated.  
Poison Schedule: Not Scheduled.  
Product Type: Inorganic solid.  
Chemical Family: Mineral. Ground quartz.

Uses: Ingredient in manufacture of ceramics, adhesives and cleaning powders.

#### PHYSICAL PROPERTIES

Appearance & Odour: White or off-white to reddish tan powder. No odour.  
Melting/softening point: 1610-1713°C approx.  
Boiling point and vapour pressure: 2230°C, approx.  
Volatile materials: Nil  
Flashpoint: Does not burn.  
Specific gravity: 2.64-2.66  
Solubility in water: Insoluble.  
Corrosiveness: Not corrosive.  
Ingredients: Worksafe Exposure Limits.  
pH-value: 100g/l H<sub>2</sub>O approx. 7.  
Odour: Odourless.

<u>Chemical entity</u>	<u>CAS No</u>	<u>Proportion</u>	<u>TWA</u>	<u>STEL</u>
Silica	14808-60-7	% 96 – 99.5	mg/m <sup>3</sup> not set *	mg/m <sup>3</sup> not set *

\* Under review.

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

#### HEALTH HAZARD INFORMATION

##### Health Effects:

No specific data is available for the product for chronic exposure symptoms. Quartz has been classified by IARC as a Group 2A - probably carcinogenic to humans (RTECS 1989). Worksafe (May 1995) has not adopted this classification, although it and exposure standards are under review.

##### Acute Effects:

Swallowed: Data suggests that the product should be considered to be non toxic by ingestion.  
Eye: Data suggests that this product should be classified as a mechanical irritant to the eyes. May cause corneal scarring.  
Skin: Data suggests that the product should be classified as not irritating or harmful to the skin. May be abrasive.  
Inhalation: Dust is harmful and irritating to upper respiratory tract and lungs. Presents a hazard from repeated exposures over lengthy periods.  
Primary route of exposure is inhalation and skin and eye contact.



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#### HEALTH HAZARD INFORMATION (Cont.)

##### First Aid:

If in mouth, thoroughly wash mouth out with water, then give some water to drink. Further measures should not be necessary.

##### Eye:

If this product comes into contact with eyes, hold open and wash with running water. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained.

##### Skin:

If this product comes into contact with skin, wash skin with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

##### Inhalation:

If mists, dusts or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.

##### Advice to doctor:

Treat symptomatically. Note the nature of this product.

#### PRECAUTIONS FOR USE

##### Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the ingredients in this product. There is a blanket recommendation of 10mg/m<sup>3</sup> for inspirable dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. See ingredients section of this data sheet.

##### Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

##### Personal Protection:

Respiratory Protection: A face mask or respirator may be used when the product is being used in dusty or confined areas. Otherwise it is usually safe to not use respiratory protection. However, there may be other circumstances where use of a mask or other device is preferred. Use judgement. For help in selecting suitable equipment consult AS 1715. Protective Gloves: Rubber, PVC or other protective gloves are not necessary but are desirable, especially if product is being used frequently or for lengthy periods.

##### Eye Protection:

Eye protective measures are not normally necessary, but are suggested when using this product.

##### Clothing:

Clean overalls should be worn, preferably with an apron.

##### Safety Boots:

Wearing safety boots would be advisory.

##### Flammability Limits:

Does not burn.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.



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## SAFE HANDLING INFORMATION

### Storage & Transport:

No special requirements storage and transport requirements. This material has no UN Classification. Not a Scheduled Poison. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with water or acids. Avoid dust formation. Keep in dry place.

### Spills and disposals:

In event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including face mask, face shield and gauntlets. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, preventing runoff from entering drains. This material may be suitable for approved landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before re-use.

### Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances.

Flashpoint:	Does not burn.
Extinguishing Media:	Use media suited to burning material.
Special Fire fighting procedures:	Wear full protective clothing including face mask, face shield and gauntlets.
Unusual fire & Explosion hazards:	Heat does not produce any known decomposition products. There is little or no chance of an explosion from this product if involved in a fire.
Stability:	Stable.
Polymerisation:	Will not polymerise.
Decomposition Products:	No known decomposition products.
Materials to avoid:	No particular incompatibilities.

## OTHER INFORMATION

## CONTACT POINT

Contact Point  
Technical Manager 03 9579 2044.

**Disclaimer** The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of or reliance on, this information in inappropriate contexts.



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