


In compliance with Regulation (EC) 1907/2006 & amendment  
 Regulation (EC) 2020/878, and Regulation (EC) 1272/2008 (CLP)      Revision date      12.08.2022  
 Version      04

#### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

<b>1.1</b>	<b>Product Identifier:</b>	
	Name	Silica flour
	Reach Registration No.	Exempted in accordance with Annex V.7.
	Synonyms	Silicon dioxide, quartz flour
	Trade names	HIM2, Z300, HIQ20, A50, HIQ5
<b>1.2</b>	<b>Relevant identified uses of the substance</b>	
	Main applications – non exhaustive list	Investment Casting, Paints and coatings, adhesives and sealants, plastics and elastomers. Cement additive. Glass and glass fibre.
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>	
	Company name	Hoben International Limited
	Address	Manystones Lane Brassington MATLOCK Derbyshire DE4 4HF No hazardous reactions United Kingdom
	Phone No.	+44 (0) 1629 540201
	Fax No.	+44 (0) 1629 540605
	Email	sales@hobeninternational.com
<b>1.4</b>	<b>Emergency telephone number</b>	
	Telephone number	+44 (0) 1629 540201
	Available outside of office hours?	No


#### 2. HAZARD IDENTIFICATION

<b>2.1</b>	<b>Classification of the substance</b>
	<i>Classification according to Regulation (EC) No 1272/2008</i>
	Contains respirable silica – classified as STOT RE2
	Airborne respirable crystalline silica may be generated. Prolonged inhalation of respirable crystalline silica may cause lung fibrosis, commonly known as silicosis.
	This product should be handled with care to avoid dust generation.
	<p>WARNING STOT RE2</p> 
	H 373 – May cause damage to lungs through prolonged or repeated inhalation.
	This product contains respirable crystalline silica at a concentration of >1% but <10%.

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2.2	Label elements Hazard pictogram			
	Signal word Hazard statement	WARNING H 373 – May cause damage to lungs through prolonged or repeated inhalation		
2.3	Other hazards	P 260 – Do not breath dust P 284 – Wear respiratory protection P 501 – Dispose of contents/containers in accordance with local regulations		
	This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH			
<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>				
3.1	Main constituents			
	Name			
	Silica	Amount	CAS No	EINECS
3.2	Impurities	99%	14808-60-07	238-878-4
	Contains between 1 and 10% of respirable crystalline silica and is classified as STOT RE 2			
<b>4. FIRST AID MEASURES</b>				
4.1	Description of first aid measures			
	Eye Contact:			
	Inhalation:	Rinse with copious quantities of water and seek medical attention if irritation persists.		
	Ingestion:	Move exposed person to fresh air immediately and seek medical advice if required.		
	Skin Contact:	No first aid measures required.		
4.2	Most important symptoms and effect, both acute and delayed	No first aid measures required.		
	No acute and delayed symptoms and effects are observed.			
4.3	Indication of any immediate medical attention and special treatment needed			
	No specific actions are required.			
<b>5. FIRE FIGHTING MEASURES</b>				
5.1	Extinguishing media:			
	No specific extinguishing media is needed.			
5.2	Special hazards arising from the substance or mixture:			
	Non combustible. No hazardous thermal decomposition.			
5.3	Advice for Firefighters:			
	No specific fire fighting protection is required.			

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid airborne dust generation, wear personal protective equipment in compliance with national legislation.

### 6.2 Environmental precautions

No special requirements.

### 6.3 Methods and material for containment and cleaning up

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

### 6.4 Reference for other sections

See sections 8 and 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques please contact your supplier

Do not eat or drink in work areas; wash hands after use; remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

### 7.3 Specific end uses

If you require advice on specific uses please contact your supplier or check the Good Practice Guide referred to in section 16.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust)

The WEL (Workplace Exposure Limit) for respirable crystalline silica dust is 0.1 mg/m<sup>3</sup> in the UK, measured as an 8 hour TWA (Time Weighted Average).

For the equivalent limits in other countries consult your local regulatory authority.

### 8.2 Exposure controls

#### 8.2.1 *Appropriate engineering controls*

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering control methods to keep airborne levels below the specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personal from dusty areas. Wash hands before breaks and at the end of the day. Remove and wash soiled clothing

#### 8.2.2 *Individual protection measures such as personal protective equipment*

- a) Eye protection Safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate standards.

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b) Skin protection	No specific requirement. For hands see below.
c) Hand protection	Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.
d) Respiratory protection	In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment (e.g., respirator, powered air respirator) that complies with the requirements of European or national legislation.
8.2.3 <i>Environmental exposure controls</i> Avoid wind dispersal	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Solid, off white powder
Odour	Odourless
Odour threshold	Not relevant
pH	7.0
Melting point	1710°C
Density	2.65g/cm <sup>3</sup>
Grain shape	Angular
Solubility in water	Negligible
Solubility in hydrofluoric acid	Yes
<b>9.2 Other information</b>	
No other information	

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	- Inert, not reactive
<b>10.2 Chemical Stability</b>	- Chemically stable
<b>10.3 Possibility of hazardous reactions</b>	- No hazardous reactions
<b>10.4 Conditions to avoid</b>	- Not relevant
<b>10.5 Incompatible materials</b>	- No particular incompatibility
<b>10.6 Hazardous decomposition products</b>	- Not relevant

## 11. TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
a) Acute toxicity	No evidence of acute toxicity.
b) Skin corrosion/irritation	Substance is not corrosive, may cause mechanical irritation.
c) Serious eye damage/irritation	May cause mechanical irritation.
d) Respiratory or skin sensation	No evidence of sensitisation
e) Germ cell mutagenicity	No evidence of mutagenicity
f) Carcinogenicity	Lung cancer excess risk is demonstrated only under high occupational exposures to respirable crystalline silica. The lung cancer excess risk is restricted to people who contract silicosis.
g) Reproductive toxicity	No evidence of reproductive toxicity
h) STOT-single exposure	Based on available data, criteria's are not met.
i) STOT-repeated exposure	Prolonged inhalation of high levels of respirable crystalline silica has been shown to cause silicosis, a nodular pulmonary fibrosis.

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j) Aspiration hazard Based on available data, the classification criteria are not met

## 12. ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Not relevant
12.2	<b>Persistence and degradability</b>	Not relevant
12.3	<b>Bioaccumulative potential</b>	Not relevant
12.4	<b>Mobility in soil</b>	Negligible
12.5	<b>Results of PBT and vPvB assessment</b>	Not relevant
12.6	<b>Other adverse effects</b>	No specific adverse effects known

## 13. DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	
	Product	Where possible, recycling is preferable to disposal. Disposal should be carried out in compliance with local regulations.
	Packaging	Dust generation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. Disposal of packaging should be carried out in compliance with local regulations by an authorized waste management company.

## 14. TRANSPORT INFORMATION

14.1	<b>UN number</b>	Not relevant
14.2	<b>UN proper shipping name</b>	Not relevant
14.3	<b>Transport hazard classes</b>	
	ADR	Not classified
	IMDG	Not classified
	ICAO/IATA	Not classified
	RID	Not classified
14.4	<b>Packing group</b>	Not applicable
14.5	<b>Environmental hazards</b>	Not relevant
14.6	<b>Special precautions for user</b>	No special precautions
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not relevant

## 15. REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
	<i>National legislation/requirements</i>	
	<i>International legislation/requirements</i>	
	Regulation (EC) No 2037/2000	Not relevant
	Regulation (EC) No 850/2004	Not relevant
	Regulation (EC) No 689/2008	Not relevant
15.2	<b>Chemical safety assessment</b>	
	This product is exempted from REACH in accordance with Annex V.7 of Regulation (EC) 1907/2006	

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## 16. OTHER INFORMATION

- (i) Indication of changes  
Changes have been made to comply with regulations  
(EC) 1907/2006  
(EC) 1272/2008  
(EC) 453/2010
- (ii) Abbreviations and acronyms  
EC: European Commission  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals and Substances  
TWA: Time Weighted Average  
STOT: Specific Target Organ Toxicity  
PBT: Persistent, Bioaccumulative, Toxic  
vPvB: very Persistent and very Bioaccumulating
- (iii) Key literature references and sources for data  
EH40/2005 Workplace exposure limits (Third Edition, 2018)  
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Volume 68 Silica (1997)
- (iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]  
This material is classified as STOT RE 2 according to the procedure given in section 3.9 of Regulation (EC) 1272/2008
- (v) Relevant H-statements (number and full text)  
H373: May cause damage to lungs through prolonged or repeated exposure via inhalation
- (vi) Training advice  
All employees should be given adequate training in the proper use and handling of this product and any precautions and protective equipment required under applicable regulations.
- (vii) Further information  
EH44/1997 - Dust: General Principles of Protection.  
EH75/4 (2002) - Respirable Crystalline Silica - Phase 1.  
EH75/5 (2003) - Respirable Crystalline Silica - Phase 2.  
HSG258 – Controlling airborne contaminants at work.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.