

In compliance with Regulation (EC) 1907/2006 & amendment **Revision date** 08.09.2023

Regulation (EC) 2020/878, and regulation (EC) 1272/2008 (CLP) Version 05

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 **Product Identifier:**

> Silica flour Name

Exempted in accordance with Annex V.7. Reach Registration No.

Synonyms Silicon dioxide, quartz flour Trade names Z300, HIQ20, A50, HIQ5

1.2 Relevant identified uses of the substance

> Main applications – non Investment Casting, Paints and coatings, adhesives and exhaustive list

sealants, plastics and elastomers. Cement additive. Glass

and glass fibre.

1.3 Details of the supplier of the safety data sheet

> 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

1.4 **Emergency telephone number**

> Telephone number +44 (0) 1629 540201

Available outside of office No

hours?

2. HAZARD IDENTIFICATION

2.1 Classification of the substance

Classification according to Regulation (EC) No 1272/2008

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.



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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Label elements 2.2

Hazard pictogram



Signal word WARNING

Hazard statement H 373 – May cause damage to lungs through prolonged or

repeated inhalation

Precautionary P 260 – Do not breath dust

statements P 284 – Wear respiratory protection

P 501 – Dispose of contents/containers in accordance with local

regulations

2.3 Other hazards

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in

accordance with Annex XIII of REACH

COMPOSITION/INFORMATION ON INGREDIENTS 3.

3.1 Main constituents

Name

Silica Amount CAS No **EINECS**

99% 14808-60-07 3.2 **Impurities** 238-878-4

Contains between 1 and 10% of respirable crystalline silica and is classified as STOT RE 2

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact:

Skin Contact:

Rinse with copious quantities of water and seek medical Inhalation:

attention if irritation persists.

Move exposed person to fresh air immediately and seek Ingestion:

> medical advice if required. No first aid measures required.

4.2 Most important symptoms

and effect, both acute and

No first aid measures required.

No acute and delayed symptoms and effects are observed.

Indication of any immediate medical attention and special treatment needed 4.3

No specific actions are required.

5. FIRE FIGHTING MEASURES

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 precautionsNo 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/m³ 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

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		protection tested and approved under appropriate standards.
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 Environmental exposure controls		ntrols
	Avoid wind dispersal	

9.	PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Information on basic physical and chemical properties		
	Appearance	Solid, off white powder	
	Odour	Odourless	
	Odour threshold	Not relevant	
	рН	7.0	
	Melting point	1710°c	
	Density	2.65g/cm ³	
	Grain shape	Angular	
	Solubility in water	Negligible	
	Solubility in hydrofluoric acid	Yes	
9.2	Other information		
	No other information		
10	STABILITY AND REACTIVITY		
10.1	Reactivity - Inert, not reactive		
10.2	Chemical Stability - Chemically stable		
10.3	Possibility of hazardous reactions - No hazardous reactions		
10.4	Conditions to avoid - Not relevant		
10.5	Incompatible materials - No particular incompatibility		
10.6	Hazardous decomposition products - Not relevant		
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11. **TOXICOLOGICAL INFORMATION** 11.1 Information on toxicological effects Acute toxicity No evidence of acute toxicity. a) Skin corrosion/irritation Substance is not corrosive, may cause mechanical irritation. b) Serious eye damage/irritation May cause mechanical irritation. c) No evidence of sensitisation Respiratory or skin sensation 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. Reproductive toxicity No evidence of reproductive toxicity g) h) STOT-single exposure Based on available data, criteria's are not met. STOT-repeated exposure Prolonged inhalation of high levels of respirable crystalline silica

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j)	Aspiration hazard	has been shown to cause silicosis, a nodular pulmonary fibrosis. Based on available data, the classification criteria are not met			
12.	12. ECOLOGICAL INFORMATION				
12.1	Toxicity	Not relevant			
12.2	Persistence and degradabilit	ty Not relevant			
12.3	Bioaccumulative potential	Not relevant			
12.4	Mobility in soil	Negligible			
12.5	Results of PBT and vPvB asse	essment Not relevant			
12.6	Other adverse effects	No specific adverse effects known			

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13	DISPOSAL CONSIDERATIONS		
13.1	Waste treatment methods		
	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	ON	
14.1	UN number	Not relevant	
14.2	UN proper shipping name	Not relevant	
14.3	Transport hazard classes		
	ADR	Not classified	
	IMDG	Not classified	
	ICAO/IATA	Not classified	
	RID	Not classified	
14.4	Packing group	Not applicable	
14.5	Environmental hazards	Not relevant	
14.6	Special precautions for user	No special precautions	
14.7	Transport in bulk according	to Annex Not relevant	
	II of MARPOL 73/78 and the	e IBC Code	
15.	REGULATORY INFORMAT	ION	
15.1	Safety, health and environn	nental regulations/legislation specific for the substance or mixture	
	National legislation/require	ments	
	International legislation/req	uirements	
	Regulation (EC) No 2037/20	00 Not relevant	
	Regulation (EC) No 850/200	4 Not relevant	
	Regulation (EC) No 689/200	8 Not relevant	
15.2	Chemical safety assessment	t	
	This product is exempted from	om 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, Bioaccumalitive, Toxic

vPvB: very Persistent and very Bioaccumlating

(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.