

In compliance with Regulation (EC) 1907/2006 & amendment Revision date 12.08.2022

Regulation (EC) 2020/878, and Regulation (EC) 1272/2008 (CLP) Version 03

# 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier:

Name Cristobalite flour

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

Synonyms Silicon dioxide, calcined silica

Trade names C100, C200

1.2 Relevant identified uses of the substance

Main applications – non Investment Casting, Filler for paints and coatings, adhesives and

exhaustive list sealants, plastics and elastomers.

1.3 Details of the supplier of the safety data sheet

Company name Hoben International Limited

Address Manystones Lane

Brassington MATLOCK Derbyshire DE4 4HF

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

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Specific Target Organ Toxicant – Repeated Exposure Category 2 - This product contains respirable crystalline silica (Cristobalite) at a concentration of >1% but <10%.



H373: May cause damage to lungs through prolonged or repeated exposure via inhalation

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2.2 Label elements

Hazard pictogram



Signal word WARNING

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

repeated inhalation

Precautionary statements P 260 – Do not breath dust

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Main constituents

Name Amount CAS No EINECS Cristobalite >85% 14464-46-1 238-455-4

3.2 Impurities

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

**Eye Contact:** Rinse with copious quantities of water and seek medical attention if

irritation persists.

**Inhalation:** Move exposed person to fresh air immediately and seek medical

advice if required.

Ingestion: No first aid measures required.

Skin Contact: No first aid measures required.

4.2 Most important symptoms and effect, both acute and delayed

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.

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 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 or check the Good Practise Guide referred to in section 16.

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

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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.
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	
	Avoid wind dispersal	

9.	PHYSICAL AND CHEMICA	PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Information on basic physical and chemical properties			
	Appearance	Solid, white powder		
	Odour	Odourless		
	Odour threshold	Not relevant		
	рН	6.5		
	Melting point	1718°c		
	Density	2.35g/cm <sup>3</sup>		
	Grain shape	Angular		
	Solubility in water	Negligible		
	Solubility in hydrofluoric	Yes		
	acid			
9.2	Other information			
	No other information			
10	STABILITY AND REACTIVITY	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		
11.	TOXICOLOGICAL INFORMATION			
11.1	Information on toxicologica	al effects		
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		

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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.	
j)	Aspiration hazard	Based on available data, the classification criteria are not met	
12.	ECOLOGICAL INFORMATION		
12.1	Toxicity	Not relevant	
12.2	Persistence and degradabilit	y Not relevant	
12.3	<b>Bioaccumulative potential</b>	Not relevant	
12.4	Mobility in soil	Negligible	
12.5	Results of PBT and vPvB asso	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				
15.1	Product	Where possible, recycling is preferable to disposal. Disposal			
	Product	should be carried out in compliance with local regulations.			
	Packaging	Dust generation from residues in packaging should be avoided			
	Fackagilig	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	UN number	Not relevant			
14.2	UN proper shipping name	Not relevant			
14.3	Transport hazard classes	The Following			
	ADR	Not classified			
	IMDG	Not classified			
	ICAO/IATA	Not classified			
	RID	Not classified			
14.4	Packing group	Not applicable			
14.5	<b>Environmental hazards</b>	Not relevant			
14.6	Special precautions for user	No special precautions			
14.7	Transport in bulk according				
	II of MARPOL 73/78 and the	e IBC Code			
15.	REGULATORY INFORMAT	ION			
15.1	- · · · · · · · · · · · · · · · · · · ·	nental regulations/legislation specific for the substance or mixture			
	National legislation/require	ments			
	International legislation/req				
	Regulation (EC) No 2037/20				
	Regulation (EC) No 850/200				
	Regulation (EC) No 689/200				
15.2	Chemical safety assessment				
	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, 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.

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