

**Cristobalite Flour** 

In compliance with Regulation (EC) 1907/2006, Regulation (EC)	<b>Revision date</b>	17/10/2018
453/2010, and Regulation (EC) 1272/2008	Version	02

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	ne 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 num	ber	
	Telephone number	+44 (0) 1629 540201	
	Available outside of office	No	
	hours?		
2.	HAZARD IDENTIFICATION	N	
2.1	Classification of the substa	nce	
2.1.1	Specific Target Organ Toxicant – Repeated Exposure Category 2 - This product contains		
	respirable crystalline silica (	Cristobalite) at a concentration of >1% but <10%.	
		$\mathbf{V}$	
	H3/3: May cause damage t	o lungs through prolonged or repeated exposure via inhalation	
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2.2	Label elements			
	Hazard pictogram			
			/	
	Character and			
	Signal word Hazard statement	WARNING	ico domogo to lungo	through prolonged or
	Hazaru Statement	repeated inhalat		through prolonged or
	Precautionary statements	P 260 – Do not b		
		P 284 – Wear re	spiratory protection	
			of contents/containe	ers in accordance with local
2.2	Other hazards	regulations		
2.3	This product is an inorganic	substance and do	es not meet the crite	eria for PBT or vPvB in
	accordance with Annex XIII		es not meet the chie	
3.	COMPOSITION/INFORM/		DIENTS	
3.1	Main constituents			
	Name A	mount	CAS No	EINECS
	Cristobalite >	85%	14464-46-1	238-455-4
3.2	Impurities			
_	Contains between 1 and 10	% of respirable Cri	stobalite and is class	ified as STOT RE 2
4.	FIRST AID MEASURES			
4.1	Description of first aid mea		up quantition of wata	r and seek medical attention if
	Eye Contact:	irritation persists		
	Inhalation:	-		mediately and seek medical
		advice if require		
	Ingestion:	No first aid meas	•	
	Skin Contact:	No first aid meas	•	
4.2	Most important symptoms		-	
4.2	No acute and delayed symp			
4.3	Indication of any immediat No specific actions are requ		on and special treath	nent needed
5.	FIRE FIGHTING MEASURE			
5.1	Extinguishing media:			
	No specific extinguishing me	edia is needed.		
5.2	Special hazards arising fron	n the substance or	r mixture:	
	Non combustible. No hazar	dous thermal deco	mposition.	
5.3	Advice for Firefighters:			
	No specific fire fighting prot	ection 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.
7.2	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
0	Practice Guide referred to in section 16.
8 8.1	EXPOSURE CONTROLS/PERSONAL PROTECTION Control parameters
0.1	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 measu	ures 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 co	ntrols
	Avoid wind dispersal	

9.	PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Information on basic physic	al and chemical properties		
	Appearance	Solid, white powder		
	Odour	Odourless		
	Odour threshold	Not relevant		
	рН	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	No other information		
10	STABILITY AND REACTIVI	STABILITY AND REACTIVITY		
10.1	Reactivity - Inert, not reactive	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			
10.6	Hazardous decomposition products - Not relevant			
11.	TOXICOLOGICAL INFORM	ATION		
11.1	Information on toxicologica	l 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
 i) STOT-repeated exposure
 j) Aspiration hazard
 Based on available data, criteria's are not met.
 Prolonged inhalation of high levels of respirable crystalline silica has been shown to cause silicosis, a nodular pulmonary fibrosis.
 Based on available data, the classification criteria are not met

12.	ECOLOGICAL INFORMATION	
12.1	Toxicity	Not relevant
12.2	Persistence and degradability	Not relevant
12.3	Bioaccumulative potential	Not relevant
12.4	Mobility in soil	Negligible
12.5	Results of PBT and vPvB assessment	Not relevant
12.6	Other adverse effects	No specific adverse effects known

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 INFORMATIC	)N		
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 IBC Code			
15.	<b>REGULATORY INFORMAT</b>	ION		
15.1	Safety, health and environn	nental regulations/legislation specific for the substance or mixture		
	National legislation/requirer	nents		
	International legislation/requirements			
	Regulation (EC) No 2037/200			
	Regulation (EC) No 850/2004			
	Regulation (EC) No 689/2008			
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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.6.	OTHER INFORMATION		
(i)			
	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.