

Cristobalite Flour

In compliance with Regulation (EC) 1907/2006, Regulation (EC)	Revision date	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	C140, C325	
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 th	e 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	l	
2.1	Classification of the substa		
2.1.1		Regulation (EC) No 1272/2008 [CLP]	
		ant – Repeated Exposure Category 1 - This product contains	
	respirable crystalline silica (Cristobalite) at a concentration of >10%.	
	H372: Causes damage to lur	ngs through prolonged or repeated exposure via inhalation	

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Hazard pictogram Signal word DANGER Hazard statement H 372 – Causes 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 3.1 Main constituents CAS NO Name Amount CAS NO Cristobalite >85% 14464-46-1 23.2 Impurities Contains greater than 10% of respirable Cristobalite and is classified as STOT RE 1 4.4 FIRST AID MEASURES ElNECS 4.1 FIRST AID MEASURES Inhalation: 4.1 Description of first aid measures required. Indication of any immediate medical attention if irritation persists. Inhalation: More exposed person to fresh air immediately and seek medical advice if required. Ingestion: 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. Sin Contact: 5.1 <	2.2	Label elements			
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In compliance with Regulation (EC) 1907/2006, Regulation (EC) 453/2010, and Regulation (EC) 1272/2008

Revision date 17/10/2018 Version 02

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. **EXPOSURE CONTROLS/PERSONAL PROTECTION** 8 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^3 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. 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, Material Safety Data Sheet - Cristobalite FlourIn compliance with Regulation (EC) 1907/2006, Regulation (EC)Revision date17/10/2018453/2010, and Regulation (EC) 1272/2008Version02

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 physic	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 ³		
	Grain shape	Angular		
	Solubility in water	Negligible		
	Solubility in hydrofluoric	Yes		
	acid			
9.2	Other information			
	No other information			
10	STABILITY AND REACTIVI	ГҮ		
10.1	Reactivity - Inert, not reactive			
10.2	Chemical Stability - Chemica	•		
10.3	-	ctions - No hazardous reactions		
10.4		Conditions to avoid - Not relevant		
10.5	-	Incompatible materials - No particular incompatibility		
10.6	Hazardous decomposition p			
11.	TOXICOLOGICAL INFORM	ATION		
11.1	Information on toxicologica			
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	Not classified		
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 INFORMATI			
12.1	Toxicity	Not relevant		
12.2	Persistence and degradabilityNot relevantBioaccumulative potentialNot relevant			
12.3				

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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	DN	
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		
14.7	Transport in bulk according		
	II of MARPOL 73/78 and the		
15.	REGULATORY INFORMAT		
15.1	-	nental regulations/legislation specific for the substance or mixture	
	National legislation/requirer	nents	
	International legislation/req		
	Regulation (EC) No 2037/200		
	Regulation (EC) No 850/2004		
	Regulation (EC) No 689/2008		
15.2	Chemical safety assessment		
		om REACH in accordance with Annex V.7 of Regulation (EC)	
10	1907/2006		
16.	OTHER INFORMATION		
(i)	Indication of changes		
	Changes have been made to	comply with regulations	
	(EC) 1907/2006		
	(EC) 1272/2008		
	(EC) 453/2010		

Regulation (EC) 1272/2008

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- (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)
- 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 1 according to the procedure given in section 3.9 of

(v)	Relevant H-statements (number and full text)		
	H372: Causes damage to	lungs through prolonged or repeated exposure via inhalation	
(vi)	Training advice		
		given adequate training in the proper use and handling of this product 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.