

SAFETY DATA SHEET according to Regulation (EU) 2015/830

FG (TM) Cristobalite

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Revision 1 Revision date 2019-05-03

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product name	FG (TM) Cristobalite	
1.2. Relevant identified uses of t	he substance or mixture and uses advised against	
Description	Foundry material.	
1.3. Details of the supplier of the	1.3. Details of the supplier of the safety data sheet	
Company	Ransom & Randolph	
Address	3535 Briarfield Boulevard, PO Box 1570	
	Maumee, Ohio 43537 USA	
Web	www.ransom-randolph.com	
Telephone	+1 (419) 865-9497	
Fax	+1 (419) 865-9997	
Email	RR.SDS@dentsply.com	
Email address of the	RR.SDS@dentsply.com	
competent person		
4 Emergeney telephone number		

1.4. Emergency telephone number

Emergency telephone number	USA +1 419 865 9497
Company	Ransom & Randolph Co.
	07:30 to 16:30 (Eastern Std. / GMT minus 5)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	STOT RE 1: H372;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	STOT RE 1: H372 - Causes damage to organs (lungs) through prolonged or repeated exposure inhalation.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash (hands) thoroughly after handling.
	P270 - Do no eat, drink or smoke when using this product.
Precautionary Statement: Response	P314 - Get medical advice/attention if you feel unwell.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations



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2.3. Other hazards		
Other hazards	Product contains respirable crystalline silica (RCS).	
	Not applicable. PBT and vPvB assessment.	
SECTION 3: Composition/	information on ingredients	
3.2. Mixtures		
EC 1272/2008		
Chemical Name	Index No. CAS No. EC No. REACH Registration Conc. Classification Number (%w/w)	
Silica (cristobalite)	14464-46-1 238-455-4 90 - 100% STOT RE 1: H372;	
Further information		
	Full text for all Risk Phrases mentioned in this section are displayed in Section 16.	
SECTION 4: First aid mea		
4.1. Description of first aid me		
· · · · · · · · · · · · · · · · · · ·		
Inhalation Eye contact	Move the exposed person to fresh air. Rinse immediately with plenty of water for 15 minutes holding the eyelids open.	
Skin contact	Wash with soap and water.	
Ingestion	Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.	
	s and effects, both acute and delayed	
Inhalation		
	May cause irritation to respiratory system.	
Eye contact Skin contact	May cause irritation to eyes. May cause irritation to skin.	
Ingestion	May cause irritation to skin. May cause irritation to mucous membranes.	
•		
	ate medical attention and special treatment needed	
Inhalation	Seek medical attention if irritation or symptoms persist.	
Eye contact	Seek medical attention if irritation or symptoms persist.	
Skin contact	Seek medical attention if irritation or symptoms persist.	
Ingestion	Seek medical attention if irritation or symptoms persist.	
SECTION 5: Firefighting m	ieasures	
5.1. Extinguishing media		
	Use extinguishing media appropriate to the surrounding fire conditions.	
5.2. Special hazards arising fr	om the substance or mixture	
	Burning produces irritating, toxic and obnoxious fumes.	
5.3. Advice for firefighters		
	Self-contained breathing apparatus. Wear suitable protective clothing.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
	Avoid formation of dust.	
6.2. Environmental precaution	IS	
	Use appropriate container to avoid environmental contamination.	
6.3. Methods and material for containment and cleaning up		
	Avoid raising dust. Clean the area using a vacuum cleaner. Transfer to suitable, labelled container.	



A Deference to other continue	
6.4. Reference to other sections	
	See section [2, 8 & 13] for further information.
SECTION 7: Handling and st	torage
7.1. Precautions for safe handlin	lg
	Avoid formation of dust. Ensure adequate ventilation of the working area. <. OEL: Occupational exposure limit. Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.
2.2. Conditions for safe storage,	including any incompatibilities
	Keep containers tightly closed.
7.3. Specific end use(s)	
	Foundry material.
SECTION 8: Exposure contro	ols/personal protection
3.1. Control parameters	
	OEL: Occupational exposure limit. quartz - 0.1 mg/m3 (respirable fraction); cristobalite - 0.1 mg/m3 (respirable fraction).
3.2. Exposure controls	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. <. OEL: Occupational exposure limit.
8.2.2. Individual protection measures	Wear protective clothing. EN13982, ANSI 103 or =.
Eye / face protection	Avoid contact with eyes. Wear:. Approved safety goggles. safety glasses with side-shields. EN166 ANSI Z87.1 or =.
Skin protection - Handprotection	Avoid contact with skin. Wear suitable gloves. EN374, ASTM F1001 or =.
Respiratory protection	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Wear:. Suitable half mask respirator with filter P3 (EN 143). EN140, EN143, ASTM F2704-10 or =.
8.2.3. Environmental exposure	Use appropriate container to avoid environmental contamination.

9.1. Information on basic physical and chemical properties



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Appearance	Devider
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Colour	Off white
Odour	Slight
pH	6 - 8
Melting point	= 1710 °C
Freezing Point	Not relevant
Initial boiling point	Not applicable.
Flash point	No data available
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	2.3
Fat Solubility	No data available
Partition coefficient	Not applicable.
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	Not applicable.
Solubility	Slightly soluble in water

9.2. Other information

Conductivity	Not applicable.
Surface tension	Not applicable.
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic	Not applicable.
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

· ·		
	Not applicable.	
10.2. Chemical stability		
	Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
	No Significant Hazard.	
10.4. Conditions to avoid		
	No Significant Hazard.	
10.5. Incompatible materials		
	No Significant Hazard.	
10.6. Hazardous decomposition products		
	Hazardous Decomposition Products (silica): Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride. Reaction with water or acids generates heat.	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		

Not applicable. Based on available data, the classification criteria are not met.



11.1. Information on toxicological effects

11.1. Information on toxicologica	al effects
Skin corrosion/irritation	Not applicable. Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Not applicable. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Not applicable. Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not applicable. Based on available data, the classification criteria are not met.
Carcinogenicity	Not applicable. Based on available data, the classification criteria are not met.
Reproductive toxicity	Not applicable. Based on available data, the classification criteria are not met.
STOT-single exposure	Not applicable. Based on available data, the classification criteria are not met.
STOT-repeated exposure	Chronic effects Prolonged inhalation of respirable crystalline silica In 1997, the International Agency for Research on Cancer (IARC) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France). In June 2003, the European Commission's Scientific Committee for Occupational Exposure Limits (SCOEL) concluded: "that the main effect in humans of the inhalation of respirable crystalline silica is silicosis. There is sufficient information to conclude that the relative lung cancer risk is increased in persons with silicosis (and apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk. Since a clear threshold for silicosis development cannot be identified, any reduction of exposure will reduce the risk of silicosis." (SCOEL SUM Doc 94-final on respirable crystalline silica, June 2003) There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk
	management measures where required (see Section 16).
Aspiration hazard	Not applicable. Based on available data, the classification criteria are not met.
Repeated or prolonged exposure	Inhalation of dust may cause shortness of breath.
11.1.4. Toxicological Information	 ו
FG (TM) Cristobalite	Oral Mouse LD50: >5000 mg/kg
SECTION 12: Ecological info	ormation
12.1. Toxicity FG (TM) Cristobalite	Fish LC50/96h: 10000.000 mg/l
I G (TM) Chstobalite	
12.2. Persistence and degradab	ility Not applicable.
12.3. Bioaccumulative potential	
	Does not bioaccumulate.
Partition coefficient	·
	FG (TM) Cristobalite Not applicable.
12.4. Mobility in soil	
	Not determined.
12.5. Results of PBT and vPvB	assessment
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12.5. Results of PBT and vPvB a	assessment
	Not determined.
12.6. Other adverse effects	
	Not applicable.
SECTION 13: Disposal cons	iderations
13.1. Waste treatment methods	
	Dispose of in compliance with all. local and national regulations.
Disposal methods	
	Contact a licensed waste disposal company.
Disposal of packaging	
	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.
Further information	
	For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
SECTION 14: Transport info	rmation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for use	er en
	The product is not classified as dangerous for carriage.
14.7. Transport in bulk according	g to Annex II of MARPOL 73/78 and the IBC Code
	The product is not classified as dangerous for carriage.
Further information	Γ
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory information	
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture
Regulations	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency,

amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94



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on Directives 91/155/EEC, 93/67/EEC,
e silica and trained in the proper use and gulations.
Health Protection through the Good ntaining it was signed on 25 April 2006. ean Commission's financial support, is the Agreement came into force on 25 icial Journal of the European Union exes, including the Good Practices Guide, ful information and guidance for the ica. Literature references are available on dustrial Silica Producers,.
gs through prolonged or repeated exposure
ollowing areas:.
n prolonged or repeated exposure .
esigned only as guidance for the safe use, correct to the best of our knowledge and s made to its accuracy. This information v not be valid for such material used in peess.

