

SAFETY DATA SHEET

PORCELAIN POWDER

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 Revision date
 2015-05-04

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier				
Product Name Product code	Porcelian Powder or Alumino Silicate SM400901R, SM300805R, SM300810R, SM300850R			
1.2. Relevant identified uses of	the substance or mixture and uses advised against			
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites;			
Description	Foundry material.			
1.3. Details of the supplier of the	e safety data sheet			
Address	3535 Briarfield Boulevard, Maumee, OH 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				
1.4. Emergency telephone num	ber			
Emergency telephone	USA +1 419 865 9497			
number				
Company	Ransom & Randolph Co.			
	07:30 to 16:30 (Eastern Std. / GMT minus 5)			
SECTION 2: Hazards identif	ication			
2.1. Classification of the substa	nce or mixture			
2.1.1. Classification -	Xn; R48/20			
1999/45/EC	Symbols: Xn: Harmful.			
Main hazards	Harmful: danger of serious damage to health by prolonged exposure through inhalation.			
2.2. Label elements				
Symbols	Xn: Harmful.			
Risk phrases	R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.			
Safety phrases	S22 - Do not breathe dust.			
	S24/25 - Avoid contact with skin and eyes.			
	S24 - Avoid contact with skin. S38 - In case of insufficient ventilation, wear suitable respiratory equipment.			
Precautionary Phrases	Danger.			
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2.2. Label elements	
	H350i - May cause cancer by inhalation.
	H372 - Causes damage to organs (lungs) through prolonged or repeated exposure inhalation.
	P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P270 - Do no eat, drink or smoke when using this product.
	P285 - In case of inadequate ventilation wear respiratory protection.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.
	P501 - Dispose of contents/container to local and national regulations.
Further information	

urther information

Not applicable. PBT and vPvB assessment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Silica (cristobalite)		14464-46-1	238-455-4		10 - 20%	5 Xn; R48/20	
Mullite		1302-93-8	215-113-2		40 - 70%	,)	
silica (amorphous)		7631-86-9	231-545-4		10 - 20%		

EC 1272/2008

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Silica (cristobalite)		14464-46-1	238-455-4		10 - 20%	5 STOT RE 1: H372;	
Mullite		1302-93-8	215-113-2		40 - 70%	,	
silica (amorphous)		7631-86-9	231-545-4		10 - 20%	,	

Further information

Full text for all Risk Phrases mentioned in this section are displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures				
Inhalation	Move the exposed person to fresh air.			
Eye contact	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.			
4.2. Most important symptoms a	and effects, both acute and delayed			
Inhalation	May cause irritation to respiratory system.			
Eye contact	May cause irritation to eyes.			
Skin contact	May cause irritation to skin.			
Ingestion	May cause irritation to mucous membranes.			
4.3. Indication of any immediate	e 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 measures				
F.A. Fosting and a later as an adding				

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.



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5.2. Special hazards arising from 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 relea	ase measures			
6.1. Personal precautions, prote	ctive equipment and emergency procedures			
	Avoid raising dust. Wear suitable respiratory equipment when necessary.			
6.2. Environmental precautions				
	No environmental requirements.			
6.3. Methods and material for co	ontainment and cleaning up			
	Avoid raising dust. Clean the area using a vacuum cleaner. Transfer to suitable, labelled containers for disposal.			
6.4. Reference to other sections				
	See section [2, 8 & 13] for further information.			
SECTION 7: Handling and st	orage			
7.1. Precautions for safe handlin	ng			
	Avoid raising dust. Ensure adequate ventilation of the working area. In case of insufficient ventilation, wear suitable respiratory equipment.			
	Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.			
7.2. Conditions for safe storage,	including any incompatibilities			
	Keep containers tightly closed.			
7.3. Specific end use(s)				
	Foundry material.			
SECTION 8: Exposure control	ols/personal protection			
8.1. Control parameters				
	exposure limits - Silica, vitreous (fused, amorphous) 80 mg/m3 / (% Silica), TWA PEL (respirable fraction).			
	exposure limits - Crystalline Silica, Cristobalite - 0.025 mg/m3 TWA ACGIH TLV (respirable fraction); 10 mg/m3 / [2(% Silica + 2)] TWA PEL (respirable fraction).			
8.2. Exposure controls				
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.			
8.2.2. Individual protection measures	Protective clothing.			
Eye / face protection	In case of splashing, wear:. Approved safety goggles. safety glasses with side-shields.			
Skin protection - Handprotection	Wear suitable gloves.			
Respiratory protection	Suitable respiratory equipment.			
8.2.3. Environmental exposure controls	Not normally required.			
Occupational exposure controls	Appropriate local exhaust ventilation is required.			
SECTION 9: Physical and ch	emical properties			

9.1. Information on basic physical and chemical properties



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9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Off white
Odour	Odourless
Odour threshold	No data available
pН	6.5 - 8
Melting point	No data available
Freezing Point	Not applicable.
Initial boiling point	Not applicable.
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Fat Solubility	Not applicable.
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Immiscible in water

ConductivityNo data availableSurface tensionNo data availableSpecific gravity2.6 - 2.9 g/cm³Gas groupNo data availableBenzene ContentNot applicable.Lead contentNot applicable.VOC (Volatile organic
compounds)Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity	
	Not applicable.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous re	pactions
	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 i	nformation
11.1. Information on toxicologica	al effects
Acute toxicity	Harmful by inhalation.
Skin corrosion/irritation	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.



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11.1. Information on toxicologic	cal effects
Respiratory or skin sensitisation	No sensitizaton effects reported.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	Known Human Carcinogens (Category 1).
Reproductive toxicity	No observed effect level. No observed effect concentration.
STOT-single exposure	No known adverse health effects.
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	No Significant Hazard.
Repeated or prolonged exposure	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
SECTION 12: Ecological inf	ormation
12.1. Toxicity	
-	Not relevant
12.2. Persistence and degrada	
10.2. Disessumulative notantia	No data is available on this product.
12.3. Bioaccumulative potentia	I
	Does not bioaccumulate.
12.4. Mobility in soil	1
	Not determined.
12.5. Results of PBT and vPvB	assessment
	Not determined.
12.6. Other adverse effects	
	Not applicable.
SECTION 13: Disposal cons	
13.1. Waste treatment methods	
	Dispose of in compliance with all. local and national regulations.
Disposal methods	
	Contact a licensed waste dianocal company
	Contact a licensed waste disposal company.



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Disposal of packaging	
	Empty containers can be sent for disposal or recycling.
SECTION 14: Transport	tinformation
ADR/RID	
	The product is not classified as dangerous for carriage.
IMDG	
	The product is not classified as dangerous for carriage.
ΙΑΤΑ	
	The product is not classified as dangerous for carriage.
Further information	
	The product is not classified as dangerous for carriage.
SECTION 15: Regulator	ry information
	- nvironmental regulations/legislation specific for the substance or mixture
Regulations	U.S. FEDERAL REGULATIONS:
	 CERCLA 103 Reportable Quantity: Alumino Silicate is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations. SARA TITLE III: Hazard Category For Section 311/312: Chronic health Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None Section 302 Extremely Hazardous Substances (TPQ): None EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory. U.S. STATE REGULATIONS California Proposition 65: This product contains the following substances known to the State of California to cause cancer: Crystalline Silica as Cristobalite. INTERNATIONAL REGULATIONS: Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL). Canadian WHMIS Classification: Class D Division 2A (cristobalite) European Inventory of New and Existing Chemicals Substances (EINECS): All of the components in this product are listed on the AICS for Australia. China Inventory of Existing Chemicals and Chemical Substances: All of the components in this product are listed on the AICS for Australia. China Inventory of Existing Chemicals and Chemical Substances: All of the components in this product are listed on the IECSC for China. Japanese Existing and New Chemical Substances: All of the components in this product are listed on the IECSC for China. Japanese Existing Chemicals List: All of the components in this product are listed on the KECL for Korea.
	Philippine Inventory of Chemicals and Chemical Substances: All of the components in this product are listed on the PICCS.
15.2. Chemical safety asse	essment
	No data is available on this product.
SECTION 16: Other info	e

SECTION 16: Other information

Other information	
Text of risk phrases in	R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Section 3	
Text of Hazard Statements in	STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .
Section 3	



Further information	
	Training Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

