SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Quartz

Product Number. P3337

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Ceramic

1.3. Details of the supplier of the safety data sheet

Supplier

Potterycrafts Ltd
Campbell Road.
Stoke on Trent
Staffordshire
England.
ST4 4ET

Tel 44 (0)1782 745000
sales@potterycrafts.co.uk

1.4. Emergency telephone number

44 (0)1782 745000 (Office Hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This product contains respirable quartz as an impurity and is therefore classified as STOT RE 1 according to criteria defined in the Regulation EC 1272/2008 and harmful according to criteria defined in Directive 67/548/EEC due to the potential for generation of airborne respirable crystalline silica.

This product should be handled with care to avoid dust generation.

Regulation EC 1272/2008

Danger
STOT RE 1

H372 : Causes damage to lung through prolonged or repeated exposure by inhalation.

Classification EU (67/548/EEC)

Symbol Letter ;	Xn
Indication of danger	Harmful.
R- phrases :	R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.

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This product contains more than 10% quartz (respirable)

2.2 Label Elements

Signal Word **:**	**DANGER**
Hazard Statement	H372 : Causes damage to lung through prolonged or repeated exposure by Inhalation.
Precautionary statements ;	P260 : Do not breathe dust. P285 : In case of inadequate ventilation wear respiratory protection. P314 : Get medical advice/attention if you feel unwell. P501 : Dispose of contents/containers in accordance with local regulation.

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Main Constituents** — Quartz

Amount	:	SiO_2 > 98%
EINECS	:	238-878-4
CAS	:	14808-60-7

3.2 Impurities — This products contains more than 10% of quartz (respirable), which is classified as STOT RE 1.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion
No first aid measures required.

Skin contact
No special first aid measures necessary.

Eye contact
Rinse with copious quantities of water and seek medical attention if irritation persists.

4.2. Most important symptoms and effects, 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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.

Specific hazards
Dust may form an explosive mixture in the atmosphere.

5.3. Advice for firefighters

Special Fire Fighting Procedures
N/A.
Protective equipment for fire-fighters
Use protective equipment appropriate for surrounding materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid airborne dust generation, wear personnel 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 air borne dust generation. Wear personnel protective equipment in compliance with national legislation.
6.4. Reference to other sections
See sections 8 & 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1 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 package products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the Good Practice Guide referred to in section 16.

7.1.2 Do not eat, drink or smoke 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
Store in closed original container in a dry place.

7.3. Specific end use(s)
If you require advice on specific uses, please contact your supplier or check the Good Practice Guide referred to in section 16.

SECTION 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, repirable crystalline silica dust) in compliance with Regulation (EC) 1907/2006, Regulation(EC) 1272/2008 and Regulation (EC)453/2010.

QUARTZ

The OEL (Occupational Exposure Limit**)** for respirable crystalline silica dust is 1.0 mg/m3 in the United Kingdom , measured as a 8 hour TWA (Time Weighted Average) . For the equivalent limits in other countries, please consult a competent occupational hygienist or local regulatory authority.

8.2. Exposure controls

Protective equipment



Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Respiratory equipment
In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).
Hand protection
For prolonged or repeated skin contact use suitable protective gloves.
Eye protection
Wear dust resistant safety goggles where there is danger of eye contact.
Hygiene measures
Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder, dust
Colour	White / off-white.
Odour	Odourless.
Solubility	Insoluble in water
Solubility in Hydrofluoric Acid	yes
Relative density	2 – 3 g/cm^3
pH-Value, Conc. Solution	7
Melting Point	>1610°C

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Inert, not reactive
10.2. Chemical stability
Stable under normal temperature conditions and recommended use.
10.3. Possibility of hazardous reactions
No hazardous reactions
Hazardous Polymerisation
Not relevant
10.4. Conditions to avoid
Not known.
10.5. Incompatible materials
No particular incompatibility.
Materials To Avoid
No incompatible groups noted.
10.6. Hazardous decomposition products
Not relevant.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

A)	Acute toxicity	Based on available data, the classification criteria are not met.
B)	Skin corrosion/irritation.	Based on available data, the classification criteria are not met.
C)	Serious eye damage/irritation.	Based on available data, the classification criteria are not met.
D)	Repiratory or Skin sensitisation	Based on available data, the classification criteria are not met
E)	Germ cell mutagenicity	Based on available data, the classification criteria are not met
F)	Carcinogenicity	Based on available data, the classification criteria are not met
G)	Reproductive toxicity	Based on available data, the classification criteria are not met

H)	STOT – single exposure	Based on available data, the classification criteria are not met
i)	STOT repeated exposure	This product contains quartz (respirable) as an impurity and therefore is classified as STOT RE 1 according to the criteria defined in Regulation EC 1272/2008.

Prolonged and/or massive exposure to respirable crystalline silica-Containing dust may cause silicosis, a nodular pulmonary fibrosis Caused by deposition in the lungs of fine respirable particles of Crystalline silica.

In 1997, IARC (The International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it is 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 chemical to humans, Silica, silicates dust and organic fibres 1997 Vol . 68 IARC, Lyon France.)

In June 2003,SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation Of respirable crystalline silica dust is silicosis. There is sufficient Information to conclude that the relative risk of lung cancer 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, Onset of silicosis will also reduce the cancer risk… "(SCOEL SUM Doc 94-Final,June 2003.
So 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 below)

J)	Aspiration hazard	Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Not known.
12.1. Toxicity
Not relevant
12.2. Persistence and degradability
Not relevant
Degradability
The product solely consists of inorganic compounds which are not biodegradable.
12.3. Bioaccumulative potential
Not relevant
12.4. Mobility in soil
Negligible
Mobility:
The product is insoluble in water.
12.5. Results of PBT and vPvB assessment
Not relevant
12.6. Other adverse effects
No specific adverse effects known

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Health and Safety at Work Act 1974.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

EU Legislation

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 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Training Advice

Workers must be informed of the presence of crystalline silica and be trained in the proper use and handling of this product as required under applicable national regulations.

Issued By Product Regulations Dept

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Revision 3

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SDS No. 000

Safety Data Sheet Status Approved.

Risk Phrases In Full

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Hazard Statements In Full

H372 Causes damage to lung through prolonged or repeated exposure by inhalation..

Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.