

1. Identification of the substance/mixture and of the company/ undertaking**1.1 Product identifier**

Trade name : Flux Calcined Diatomaceous Earth (DE), Silica
CAS-No. : 14464-46-1 Cristobalite
68855-54-9 Diatomaceous Earth
14808-60-7 Quartz

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

Application of the substance/ : Water treatment **Water Filtration**
the preparation

1.3 Details of the supplier of the safety data sheets

Company : Tennants Distribution Ltd, Oakwood Ind.Est, Thamesway, Northfleet, Kent, DA11 9DT
Telephone : 01474 331010
Fax : 01474 356434
Email : sales@pool-chem.co.uk

1.4 Emergency telephone number

Emergency telephone : Emergency only telephone number (open 24 hours):
Number 01865 407333 (N.C.E.C. Culham)

2. Hazards identification

Harmful: danger of serious damage to health by prolonged exposure through inhalation.
CLASSIFICATION (1999/45) Xn; R48/20

HUMAN HEALTH

Long term exposure to any respirable mineral dust could cause effects in the respiratory system. Airborne dust may cause irritation to the eyes. 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 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, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concludes 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 preventing the onset of silicosis will also reduce the cancer risk ..." (SCOEL SUM Doc 94-final), June 2003). There is a body of evidence supporting the fact that the increased cancer risk would not be limited to people already suffering from silicosis. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.

3. **Composition / information on ingredients**

Name	EC No.	CAS-No.	Content	Classification (67/548)
Cristobalite (crystalline silica)	238-455-4	14464-46-1	<60%	Xn; R48/20
Diatomaceous Earth, Flux Calcined	272-4890	68855-54-9	<39%	-
Quartz (crystalline silica)	238-878-4	14808-60-7	<1%	Xn; R48/20

The full text for all R-Phrases are displayed in Section 16

4. **First aid measures****Inhalation**

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Skin contact

Wash skin with soap and water.

Eye contact

Immediately flush with plenty of water or eyewash solution for up to 10 minutes.
Contact doctor if discomfort continues

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

5. **Fire- fighting measures**

Extinguishing Media : The product is non-combustible

6. **Accidental release measures****Person precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust.

Environmental protection

Avoid discharge into drains, water courses or onto the ground.

Spill clean up methods

Avoid dust formation. Dampen spillage with water. Collect powder using special vacuum cleaner with particle filter or carefully sweep into closed container.

7. **Handling and storage****Usage precautions**

Avoid handling which leads to dust formation

Storage precautions

No special storage precautions noted

8. Exposure controls / personal protection

Cristobalite (crystalline silica) WEL TWA – 8hrs 0,1 mg/m³

Quartz (crystalline silica) WEL TWA – 8 hrs 0,1 mg/m³

WEL = Workplace Exposure Limit

Protective Equipment**Engineered Measures**

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand Protection

For prolonged or repeated skin contact use suitable protective gloves

Eye Protection

Wear approved safety goggles. Contact lenses should not be worn when working with this product.

Hygiene Measures

Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

9. Physical and chemical properties

Form	: Powder, dust
Colour	: White / off-white
Odour	: Almost odourless
Relative Density	: 2.3
Solubility	: Insoluble in water

10. Stability and reactivity**Stability**

Stable under normal temperature conditions and recommended use.

Materials to avoid

Hydrofluoric acid

Hazardous decomposition products

None under normal conditions

11. **Toxicological information**

General information

This product has low toxicity. Only large volumes may have adverse impact on human health

Inhalation

Dust may irritate respiratory system or lungs

Ingestion

No harmful effects expected in amounts likely to be ingested by accident

Skin contact

Prolonged contact may cause dryness of the skin

Eye contact

Particles in the eyes may cause irritation and smarting

12. **Ecological information**

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Mobility

The product is insoluble in water

Bioaccumulation

The product does not contain any substances expected to be bioaccumulating

Degradability

The product is not biodegradable

Water Hazard Classification

NWG

13. **Disposal considerations**

General information

This mineral can be disposed of as a non toxic / inactive material in approved landfill sites in accordance with local regulation

14. **Transport information**

General

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

15. Regulatory information

Labeling



Harmful

Contains	Cristobalite (crystalline silica)	
	Quartz (crystalline silica)	
Risk Phrase	R48/ 20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
Safety Phrases	S22	Do not breathe dust
	S38	In case of insufficient ventilation, wear suitable respiratory equipment

UK Regulatory reference

Health and Safety at Work Act 1974. The control of substances Hazardous to Health Regulations 1988

Statutory Instruments

Chemicals (Hazard information and Packaging) Regulations

Approved Code of Practice

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

Guidance Notes

Workplace Exposure Limits EH40

16. Other information**Relevant R-phrases**

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

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