

40450 BURNT SIENNA, England

Edition: 06.03.2002

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Information:

Product Name: Burnt Sienna, England
Art. No.: 40450

Company: Dr. Georg Kremer
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Grained and depurated natural red/brown earth from England.

The R- and S-phrases given below relate to the components of the product and are given for information only. For the classification of the product and any R- & S-phrases applicable to it refer to sections 3 & 15.

Substances presenting a health hazard within the meaning of the Chemicals (Hazard Information and Packaging) Regulations 1996.

Name	Conc. Range	Symbol	CAS No.	R-Phrases
Ferric Oxide	> 50 %			
Silica (quartz)	10 - 25 %	Xn	7631/86/9	R48/20 S51
Alumina	2.5 - 10 %		1344/28/1	

R- and S-Phrases used:

- R 48/20: Harmful: danger of serious damage to health by prolonged exposure.
- S 51: Use only in well ventilated areas.

3. HAZARD IDENTIFICATION

Main hazards: This product is not classified as harmful for supply under regulation 5 of the Chemicals (Hazard Information and Packaging) Regulations 1999 (CHIP), due to the presence of respirable silica. Refer to section 2 (Composition/Information on Ingredients) and section 15 (Regulatory Information).

Health effects:

- Inhalation: Inhalation of respirable silica over a long period of time has been shown to result in irreversible damage (e.g. silicosis).

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4. FIRST AID MEASURES

After eye contact: Wash with water or eyewash solution.
After skin contact: Wash affected skin with soap and water.
After ingestion: Remove from dusty atmosphere, no treatment normally required.
After inhalation: Material is not toxic. Seek medical advice if large quantities are involved.

5. FIRE-FIGHTING MEASURES

Extinguishing media: No restrictions. Product is not inflammable, it doesn't produce toxic effects.
Unusual fire and explosion hazards: none

6. ACCIDENTAL RELEASE MEASURES

General information: Dampen with water to prevent dust production and shovel up into plastic bags or other suitable container.
Refer to section 13 (Disposal Considerations). Small residues may be washed away to drains.

7. HANDLING AND STORAGE

Handling: Local exhaust ventilation may be required if handling large quantities on a continuous basis. A dust mask will be adequate for smaller quantities and/or intermittent use. Refer to the following HSE publications for further information:
HS(G)37 "Introduction to local exhaust ventilation".
EH44 "Dust: General principles of protection".
EH59 "Crystalline silica".
Storage: Store in a cool dry place away from foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure standards:

Substance:		Occupational Exposure Limits 8 Hour TWA			
		Total Dust		Respirable Dust	
		ppm	mg/m ³	ppm	mg/m ³
Ferric oxide	OES		10.00		4.00
Silica (quartz)	MEL				0.30
Alumina	OES		10.00		4.00

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Refer to section 7 (Handling and Storage) and section 15 (Regulatory Information).
If dust levels are likely to exceed the OES, a dust mask must be worn, complying with BS EN 149 "Specifications for filtering half masks to protect against particles".
A dust mask complying with this standard may also be used to reduce exposure to crystalline silica to a level below the MEL.
Goggles should be worn if necessary.
Overalls and gloves may help to prevent workers becoming excessively dirty.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: powder
Color: red/brown
Odor: none

pH: 2 - 4
Solubility in water: insoluble
Flash point: not applicable
Flammability: non-flammable
Vapor pressure: not applicable
Density or relative density: 3.8
Explosive properties: none
Oxidizing properties: none
Decomposition temperature: > 1000°C

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Materials to avoid: No hazardous reactions observed.
Hazardous decomposition: No hazardous decomposition products observed.

11. TOXICOLOGICAL INFORMATION

Ingestion: Generally regarded as a non-toxic substance based on experience of long term exposure.
Inhalation. Chronic exposure to crystalline silica can result in severe lung disease due to partial retention of the dust in airways and alveoli.

12. ECOLOGICAL INFORMATION

Practically insoluble in water and separable by most filtration or sedimentation techniques.
Discharges to water courses should be avoided to prevent the exclusion of natural light affecting fauna.

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13. DISPOSAL CONSIDERATIONS

The material and its packaging may be disposed of in accordance with local and national regulations. In some cases large quantities may be returned to the manufacturer.

14. TRANSPORT INFORMATION

No special requirements for transportation by sea, road, rail or air.

15. REGULATORY INFORMATION

Designation according to EC guidelines: The material is subject to classification according to the EEC Directive 67/548/EEC.
It is a natural product.

EC-Symbol: Xn Harmful

Substances which should appear on the label:

<i>Name</i>	<i>Conc. Range</i>
Silica (Quartz)	10 - 25 %

Risk-Phrases:

- R 48/20: Harmful: Danger of serious damage to health by prolonged exposure.

Safety-Phrases:

- S 51: Use only in well ventilated areas.

16. OTHER INFORMATION

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.