

# Health & Safety Product Data Sheet NATURAL AGGREGATES

**Smiths**  
CONCRETE

## 1. Identification of Substance

### (a) SUBSTANCE

Natural aggregates. Typically:- Crushed rock including granite, dolerite, limestone and basalt.  
All types of sand, washed/unwashed.  
Stone/crushed stone. Marine dredged and land won gravels.

### (b) SMITHS CONCRETE LIMITED

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## 2. Composition

Natural aggregates are produced from naturally occurring rock or sand and gravel deposits and consist of combinations of various minerals including silica.

## 3. Hazards Identification

Respirable dust inhaled over a prolonged period can be hazardous to health. When the respirable dust contains silica, the risks are increased. Advice on the silica content of the dust produced from individual aggregates is available via the supplying unit on request.

## 4. First Aid Measures

### (a) Inhalation

Remove from exposure to fresh air.

### (b) Skin Contact

Wash with water.

### (c) Eye Contact

Immediately irrigate with copious amounts of water and seek medical attention.

### (d) Ingestion

Remove from exposure to fresh air.

## 5. Fire Fighting Measures

None needed.

## 6. Accidental Release Measures

### Personal Protection

In the event of a spillage or leakage avoid breathing in the dust. Wear dust mask/respirator and goggles as specified in section 8 - Exposure Controls/Personal Protection.

### Environmental Measures

The release of dust into the environment does not constitute a significant hazard. Aggregates should be disposed of in accordance with local authority requirements.

### Method of Cleaning

Vacuum system. Water spraying to prevent airborne dust where possible. Avoid dry sweeping which creates dust, damp down surfaces.

## 7. Handling & Storage

The product should be handled and stored to minimise the creation of airborne dust. Engineering control measures such as containment, enclosed silos, local exhaust ventilation should be applied when airborne dust exposure levels are approached. Bagged aggregates should be palletised and kept dry.

## 8. Exposure Controls/ Personal Protection

Occupation Exposure Limits:-	(8 Hr. TWA)	M.E.L.(8Hr TWA)	Source
Total Inhalable Dust	10 mg/m <sup>3</sup>	-	EH40/Current Issue
Respirable Dust	4 mg/m <sup>3</sup>	-	EH40/Current Issue
Respirable Silica		0.1 mg/m <sup>3</sup>	EH40/Current Issue

**Engineering Control Measures: as per section 7, Handling and Storage.**

### Personal Protection:

Respiratory protection to HSE approved standard.  
Hand protection: abrasive resistant gloves.  
Eye protection to HSE approved standard for dust goggles.  
Skin protection: overalls.

## 9. Physical & Chemical Properties

Odourless solid particles of crushed stone, gravel or sand in various colours.

Other chemical properties not applicable.

## 10. Stability & Reactivity

Not applicable.

## 11. Toxicological Information

### HEALTH EFFECTS

- On Eyes:** May cause transient irritation.  
**On Skin:** Unlikely to cause harm on brief or occasional contact.  
**By Inhalation:** Inhalation of large quantities of respirable silica may lead to progressive lung damage. This may cause permanent disability and, in extreme cases, may be fatal.  
**By Ingestion:** Unlikely to cause harm.  
**Chronic:** Exposure to high levels of silica may cause progressive silicosis.  
**Others:** None known.

## 12. Ecological Information

### Ecological Assessment

When used and disposed of as intended, no adverse environmental effects are foreseen.

## 13. Disposal Considerations

Is not classified as hazardous for disposal purposes. Subject to local authority disposal requirements.

## 14. Transport Information

Classification for conveyance not required.

## 15. Regulatory Information

### Hazard Label Data:

This product is NOT classified as dangerous for supply in the UK.

### Statutory Instruments:

Health & Safety at Work, etc. Act 1974

Consumer Protection Act 1987

COSHH 2002

Environmental Protection Act 1990

### Guidance Notes:

Occupational Exposure Limits (EH40)

Local Exhaust Ventilation (HS(G)37)

Crystalline Silica EH59

Dust, General Principles of Protection (EH44)

Control of Respirable Crystalline Silica in Quarries (HS(G)73)

Waste Management - The Duty of Care

The above publications are available from HMSO or HSE.

## 16. Other Information

The data and advice given above apply when the substance is used as intended. Use of the substance for other applications may give rise to risks not mentioned. The information contained within the Safety Data Sheet does not constitute the users own assessment of risk as required by other Health and Safety legislation, i.e. COSHH 2002, MHSWR 1999.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

For further information or extra copies, contact:-

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