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**Geocel®**

## PRODUCT SAFETY DATA SHEET

According to EC directive 91/155/EEC and subsequent amendments

Version: 2.1

Revision Date: 13/07/06

### GEOCEL® 201 – ONE PART POLYSULPHIDE

#### 1. Identification of the Product.

Commercial Name: Geocel® 201  
Name and Address of Supplier: Geocel Limited  
Western Wood Way  
Langage Science Park  
Plympton  
Plymouth  
PL7 5BG  
United Kingdom  
Main Switchboard: +44 (01752) 202060  
Main Fax: +44 (01752) 334384

#### 2. Composition/Information on Ingredients.

Chemical characterisation: Polysulphide sealant (preparation)

##### Hazardous ingredients (1)

Name	CAS No	% (w/w)	Symbols & health risk phrases
Bisphenol A - epichlorohydrin epoxy resin	25068-38-6	<1	Irritant (Xi) R36/38 irritating to eyes and skin contact R43 may cause sensitisation by skin contact
Calcium peroxide	1305-79-9	1-5	Irritant (Xi) Oxidising (O) R8 Contact with combustible material may cause fire R36/37/38 Irritating to eyes, respiratory system and skin.
Barium oxide	1304-28-5	1-5	Harmful (Xn) R20/22 Harmful by inhalation and if swallowed
Bis (2,2,6,6 – tetramethyl –4-piperidy) sebacate	52829-07-9	<1	Irritant (Xi) R36 Irritating to eyes

(1) According to Commission Directive 88/379/EEC (Article 3 6aa)

#### 3. Hazards Identification.

Ingestion of large quantities may induce narcosis. May irritate the eye. May cause skin irritation especially if exposure is prolonged and/or repeated. Unlikely to cause damage to internal organs. Not readily biodegradable. May accumulate in the aquatic environment. Discharge of large quantities into the aquatic environment may kill fish and other aquatic organisms.

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**GEOCEL® 201 – ONE PART POLYSULPHIDE****4. First Aid.**

<b>Skin:</b>	In cases of skin contact wash the skin with soap and water.
<b>Eyes:</b>	In cases of eye contact wash out the eye thoroughly with plenty of clean water for a minimum of 15 minutes.
<b>Inhalation:</b>	In cases of inhalation remove from exposure. Keep warm and at rest. If breathing stops or shows signs of failing, apply artificial ventilation. Obtain medical attention urgently.
<b>Ingestion:</b>	If ingested wash out the mouth with water. Do not induce vomiting. Obtain medical attention.
<b>Other first aid information:</b>	None known.

**5. Fire-Fighting Measures.**

<b>Extinguishing media:</b>	Foam, sand, dry powder, fine water spray.
<b>Unsuitable extinguishing media:</b>	Avoid using large quantities of water.
<b>Unusual fire fighting hazards:</b>	None known.
<b>Special fire fighting procedures:</b>	None known.
<b>Other recommendations:</b>	In case of fire self-contained breathing apparatus should be worn.
<b>Combustion products:</b>	Fumes containing carbon dioxide, carbon monoxide and sulphur dioxide may be found in large fires.

**6. Accidental Release Measures.**

<b>Personal precautions:</b>	Wear impervious gloves/overalls and eye protection while clearing up spillage.
<b>Precautions to protect the environment:</b>	Dispose of in accordance with state and local authority regulations. Seek advice from the local waste authority or Geocel Ltd. Do not wash into drains.
<b>Clean up procedures:</b>	Contain and collect spillage. Absorb on to sand/kieselguhr or other inert material. May make floor slippery. Place in plastic barrels for disposal. Do not mix with other waste materials.

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**GEOCEL® 201 – ONE PART POLYSULPHIDE****7. Handling and Storage.**

<b>Handling precautions:</b>	Use in a well ventilated area. Wear proper protective equipment.
<b>Storage:</b>	Do not store close to strong oxidising agents, which could aggravate any fire situation. Do not store close to acids. Do not store product in direct sunlight.
<b>Unsuitable packaging materials:</b>	None known
<b>Incompatibilities:</b>	None known
<b>Other information:</b>	None known

**8. Exposure Controls and Personal Protection.**

<b>Exposure controls:</b>	General ventilation required. Local ventilation recommended. All personal protective equipment must comply with the appropriate EEC (CE) standards and should be maintained and stored to ensure continued suitability for use. Where necessary workers should be trained in the effective use of the personal protective equipment provided.
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**Exposure controls for hazardous components**

<b>Name</b>	<b>CAS No</b>	<b>Exposure limits</b>
Calcium peroxide	1305-79-9	10mg/m <sup>3</sup> (OES 8hr TWA) suppliers recommended limit
Barium oxide	1304-28-5	0.5mg/m <sup>3</sup> (OES 8hr TWA) as Barium

**Personal Protective Equipment**

Avoid contact with eyes, skin or clothes. Do not ingest. Working procedures should be designed to minimise worker exposure to this product. Where this is not possible the following personal protective equipment should be provided.

<b>Respiratory:</b>	Adequate respiratory protection must be worn.
<b>Hand:</b>	Impervious gloves must be worn.
<b>Eye:</b>	Chemical safety goggles recommended.
<b>Skin:</b>	Protective overalls and shoes/boots must be worn.
<b>Industrial hygiene:</b>	Exercise good industrial hygiene practice. Wash hands after use especially before eating, drinking and smoking.

(1) According to Health &amp; Safety Executive Document EH40

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**GEOCEL® 201 – ONE PART POLYSULPHIDE****9. Physical and Chemical Properties.****Appearance**

<b>Form:</b>	Smooth Paste
<b>Colour:</b>	White, grey, teak, black, buff and red
<b>Odour:</b>	Mercaptan

**Safety related information**

<b>PH:</b>	8-10 (slurry)
<b>Boiling point/boiling range:</b>	Not determined
<b>Melting point/melting range:</b>	Not determined
<b>Flashpoint:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not determined
<b>Auto flammability:</b>	Not determined
<b>Explosive properties:</b>	Not determined
<b>Oxidising properties:</b>	Can be oxidised by metal oxides
<b>Vapour pressure:</b>	Not determined
<b>Specific gravity:</b>	1.72
<b>Solubility in water:</b>	Insoluble
<b>Solubility in fat:</b>	Slightly soluble
<b>Oil/water partition coefficient:</b>	Not determined

**Other data**

<b>Vapour density (air=1):</b>	Not determined
<b>Evaporation rate (ethyl ether = 1):</b>	Not determined
<b>Viscosity:</b>	2500 – 6000 @ 25°C
<b>% Volatiles:</b>	2.0
<b>Molecular weight:</b>	4000

The above information is not intended for use in preparing product specifications. Contact Geocel Limited before writing specifications.

**10. Stability and Reactivity.**

<b>Stability:</b>	Stable
<b>Reactivity:</b>	May react exothermically with acids. May react with strong oxidants.

**11. Toxicological Information.****Possible health effects**

<b>Skin (3):</b>	May produce some skin irritation after prolonged contact.
<b>Eyes (3):</b>	May cause eye irritation.
<b>Inhalation (3):</b>	Harmful by inhalation. Prolonged exposure to the vapour may cause damage to internal organs.

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<b>Ingestion (3):</b>	Classified as "Harmful if swallowed". May cause irritation of the mouth and upper digestive tract and injury to internal organs.
<b>Other health hazard information:</b>	This product contains a substance, which, if present as a dust or fume, presents an inhalation risk and is subject to an Occupation Exposure Limit (OEL). This is not relevant to the current physical state of the product, which is not in respirable form.
<b>LC50:</b>	Not determined
<b>LD50:</b>	(Oral rat) <2000mg/kg

- (1) Based on product test data.  
 (2) Based on assessments from related products.  
 (3) This information is based either on test data, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

## 12. Ecological Information.

### Elimination (3)

<b>Persistence:</b>	Not determined
<b>Degradability:</b>	This product is poorly biodegradable.

### Behaviour in aquatic compartment (3)

<b>Mobility:</b>	Not determined
<b>Bioaccumulation:</b>	Not determined

### Ecotoxicity (3)

<b>Aquatic:</b>	Do not release into surface waters.
<b>Terrestrial:</b>	Not determined

- (1) Based on product test data.  
 (2) Based on assessments from related products  
 (3) This information is based either on test data, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

## 13. Disposal Considerations.

<b>Product disposal:</b>	When disposing of waste or surplus material avoid contact with eye or skin. Wear impervious gloves/overalls, chemical safety goggles and suitable respiratory protection. Do not wash into drains. Do not mix
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with other waste materials.

**Packaging disposal:**

Packaging should be disposed of in accordance with regional and/or national regulations.

**14. Transport Information.**

Not classified as "Hazardous for transport".

**15. Regulatory Information.****EEC Supply classification and labelling (1)**

This product has been assessed using the Health & Safety criteria laid down in the EC Directives on the Control of Dangerous Substances and Preparations. It is found to be not classified using the safety criteria but is classified as "Dangerous" according to the health criteria and should be labelled:

Harmful (XN) contains barium oxide

**R20/22:** Harmful by inhalation and if swallowed**S23:** Do not breathe fumes**S28:** After contact with the skin, wash immediately with plenty of soap and water.**S36/37/39:** Wear suitable protective clothing, gloves and eye/face protection.**S51:** Use only in well ventilated areas.**National legislation****Other regulations****EINECS:****TSCA:****MITI:****DSL:****AICS:**

(1) According to 93/18/EEC as adapted for the 3<sup>rd</sup> time to Technical Progress Commission Directive 88/379/EEC

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**GEOCEL® 201 – ONE PART POLYSULPHIDE****16. Other Information.**

This product safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Geocel product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Geocel Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with Commission Directive 1999/45/EC.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Geocel shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Geocel supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary – even for the same product – between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Geocel supplier.