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**Geocel**<sup>®</sup>**PRODUCT SAFETY DATA SHEET**

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

Version: 3.0

Revision Date: 11/03/05

**GEOCEL<sup>®</sup> TOP GUN GLAZING PUTTY****1. Identification of the Product.**

Commercial Name: Geocel<sup>®</sup> Top Gun Glazing Putty  
 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: Acrylic sealant (preparation)

**Hazardous Ingredients:**

Name	CAS No	%	Symbols & Health Risk Phrases
Dolomite	16389-88-1	>30%	
Mergal K14		<1%	Harmful (Xn) R43 May cause sensitisation by skin contact
Monoethylene Glycol	107-21-1	<1%	Harmful (Xn) R22 Harmful if swallowed
Titanium Oxide	13463-67-7	1.5% *	

\* Specific coloured formulation will contain various pigment additives. The maximum concentration of each pigment, if present, is provided and occupational exposure limits are listed in Section 8.

**3. Hazards Identification.**

If ingested may cause some irritation to the mouth and upper digestive tract. May irritate the eyes. May cause irritation especially if exposure is prolonged and/or repeated. Unlikely to cause damage to internal organs following skin contact. It is unlikely that inhalation will be a route of exposure.

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#### 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 water.
<b>Inhalation:</b>	In cases of inhalation, remove from exposure. Keep warm and at rest.
<b>Ingestion:</b>	If ingested, wash out the mouth with water. Do not induce vomiting. Seek medical advice.
<b>Other first aid information:</b>	None known.

#### 5. Fire-Fighting Measures.

<b>Extinguishing media:</b>	Fine water spray, sand, foam, and dry powder.
<b>Unsuitable extinguishing media:</b>	None known.
<b>Unusual fire fighting hazards:</b>	None known.
<b>Special fire fighting procedures:</b>	Cool the storage tank with water spray.
<b>Other recommendations:</b>	Self-contained breathing apparatus should be worn.
<b>Combustion products:</b>	Fumes containing carbon dioxide and carbon monoxide may be formed in large fires.

#### 6. Accidental Release Measures.

<b>Personal precautions:</b>	Wear impervious gloves/overalls and eye protection while clearing up the spillage. May make floor very slippery.
<b>Precautions to protect the environment:</b>	Do not wash into drains.
<b>Clean up procedures:</b>	Contain and collect spillage. Place in plastic barrels for disposal. Do not mix with other waste materials. Dispose of in accordance with State and Local Authority regulations.

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#### 7. Handling and Storage.

**Handling precautions:**

General ventilation is required, local ventilation is recommended. Wear personal protection equipment described in Section 8.

**Storage:**

Do not store close to strong oxidising agents, which could aggravate any fire situation. Do not store in direct sunlight.

**Unsuitable packaging materials:**

None known.

**Incompatibilities:**

None known.

**Other information:**

Use in a well ventilated area.

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#### 8. Exposure Controls and Personal Protection.

**Exposure controls:** See Section 7

##### Exposure controls for hazardous components

Name	CAS No	Exposure Limits
Dolomite	16389-88-1	10mg/m <sup>3</sup> (OES 8hr TWA total inhalable dust) 5mg/m <sup>3</sup> (OES 8hr TWA respirable dust)
Mergal K14		>2000mg/kg Oral rat
Monoethylene Glycol	107-21-1	10mg/m <sup>3</sup> (OES 8hr TWA particulates) 60mg/m <sup>3</sup> (OES 8hr TWA vapour) 125mg/m <sup>3</sup> (OES 15 min STEL vapour)
Titanium Dioxide	13463-67-7	10mg/m <sup>3</sup> (OES 8hr TWA total inhalable dust) 5mg/m <sup>3</sup> (OES 8hr TWA respirable dust)

##### Personal protective equipment

**Respiratory:** Not required unless OES is exceeded.

**Hand:** Impervious gloves recommended.

**Eye:** Chemical safety goggles recommended.

**Skin:** Protective overalls and shoes/boots recommended.

**Industrial hygiene:** Avoid contact with eyes, skin or clothes. Wash after handling especially before eating, drinking or smoking.

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 equipment required.

(1) According to Health and Safety Executive Document EH40

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**GEOCEL® TOP GUN GLAZING PUTTY****9. Physical and Chemical Properties.****Appearance**

<b>Form:</b>	Smooth paste
<b>Colour:</b>	White, brown, magnolia
<b>Odour:</b>	Sweet

**Safety related information**

<b>PH:</b>	7 – 8
<b>Boiling point/boiling range:</b>	100°C
<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>	Not determined
<b>Vapour pressure:</b>	Not determined
<b>Specific gravity:</b>	1.5 – 1.65
<b>Solubility in water:</b>	Soluble
<b>Solubility in fat:</b>	Insoluble
<b>Oil/water partition coefficient:</b>	Not determined
<b><u>Other data</u></b>	
<b>Vapour density (air=1):</b>	Not determined
<b>Evaporation rate (ethyl ether=1):</b>	Not determined
<b>Viscosity:</b>	Approx 4000p
<b>% Volatiles:</b>	13
<b>Molecular weight:</b>	Not determined

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#### 10. Stability and Reactivity.

<b>Stability:</b>	Stable
<b>Reactivity:</b>	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>	No significant effect.
<b>Ingestion (3):</b>	Not classified as 'harmful if swallowed'. May cause some irritation of the mouth and upper digestive tract.

**Other health hazard information:** This product contains a substance, which, if present as a dust or fume, presents an inhalation risk and is subject to an Occupational 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.

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#### 12. Ecological Information.

##### Elimination (3)

**Persistence:** Not determined

**Degradability:** This product is poorly biodegradable

##### Behaviour in aquatic compartment (3)

**Mobility:** Not determined

**Bioaccumulation:** Not determined

##### Ecotoxicity (3)

**Aquatic:** Not readily biodegraded. May accumulate in the aquatic environment. Discharge of large quantities into the aquatic environment may kill fish and other aquatic organisms.

**Terrestrial:** 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.

**Product disposal:** When disposing of waste or surplus material avoid contact with the eyes and skin. Wear impervious gloves/overalls and chemical safety goggles.

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

#### 14. Transport Information.

Not classified as hazardous for transport

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#### 15. Regulatory Information.

##### EC Supply classification and labelling

This preparation has been assessed using the health and safety criteria laid down in the EEC Directives of the Control of Dangerous substances and preparations. It is found not to be classified according to the health and safety criteria.

Use only as directed  
Keep away from children  
Wash hands after use

##### National legislation

##### Other regulations

German waste number:

German water class:

German Vbf:

German TA-Luft:

Ozone depleting chemicals:

EINECS:

TSCA:

MITI:

DSL:

AICS:



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#### 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.