

PRODUCT SAFETY DATA SHEET

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

Version: 1.0

Revision Date: 01/01/02

GEOCEL® 580 – OIL BASED MASTIC**1. Identification of the Product.**

Commercial Name: Geocel® 580
 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: Oil based mastic (Preparation)

Hazardous ingredients (1)

Name	CAS-No.	Conc. (% w/w)	Classification
Calcium carbonate	471-34-1	>30	Unclassified
Cobalt drier	13586-82-8	<0.5	R22 Harmful if swallowed R43 May cause sensitisation by skin contact
White spirit	8052-41-3	1-5	R10 Flammable

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

3. Hazards Identification.

If ingested may cause some irritation to the mouth and upper digestive tract. May irritate the eye. May cause skin irritation especially if exposure is prolonged and/or repeated. Unlikely to cause damage to internal organs following skin contact. Not classified as a skin sensitiser but has a low potential to cause sensitisation if skin contact is prolonged and/or repeated. Inhalation of the vapour may cause slight irritation to the nose and upper respiratory tract. Not classified as "Dangerous" according to the criteria for safety. Biodegradable so unlikely to accumulate in the aquatic environment. Discharge of large quantities into the aquatic environment may kill fish and other aquatic organisms.

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4. First Aid.

On contact with eyes:	Flush with water.
On skin contact:	Wipe off and wash with soap and water.
If inhaled:	Remove to fresh air. Keep warm and at rest.
On ingestion:	Wash out the mouth with water. Do not induce vomiting. Seek medical attention.
Other first aid information:	None known.

5. Fire-Fighting Measures.

Suitable extinguishing media:	Carbon dioxide, foam, dry powder or fine water spray.
Unsuitable extinguishing media:	Avoid using large quantities of water.
Hazards during fire fighting:	None known.
Special protective equipment and Procedures:	In case of fire, cool the storage tank with water spray.
Other recommendations:	In case of fire, self-contained breathing apparatus should be worn.
Hazardous combustion products:	Fumes containing carbon dioxide and carbon monoxide may be formed in large fires.

6. Accidental Release Measures.

Personal precautions:	Wear impervious gloves / overalls, eye protection and a vapour absorbing face mask while clearing up the spillage.
Precautions to protect the environment:	Dispose of in accordance with state and local authority regulations. Seek advice from the local waste authority or guidance from Geocel Limited.
Methods for cleaning up:	Contain and collect spillage. Absorb on to sand / kieselguhr or other inert materials. May make floor very slippery. Place in plastic barrels for disposal. Do not wash into drains. Do not mix with other waste materials.

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7. Handling and Storage.

Advice on safe handling:	Keep away from sources of ignition. General ventilation is recommended. Wear personal protective equipment and avoid contact with skin, eyes and clothes.
Advice on storage:	Store in the containers as supplied, at between 5 and 40°C. Do not store close to strong oxidizing agents, which could aggravate any fire situation.
Unsuitable packaging materials:	None known.
Incompatibilities:	None known.
Other Information:	None known.

8. Exposure Controls and Personal Protection.

Exposure controls: Refer to section 7

Exposure controls for hazardous components

Name	CAS No.	Exposure Limits (1)
Calcium carbonate	471-34-1	10mg/m ² (OES 8hr TWA total inhalable dust) 5mg/m ² (OES 8hr TWA respirable dust)
White spirit	8052-41-3	575mg/m ³ (OES 8hr TWA)

Personal protection equipment

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.

Respiratory protection:	Adequate vapour absorbing facemask respiratory protection recommended.
Hand protection:	Impervious gloves recommended.
Eye protection:	Chemical safety goggles recommended.
Skin protection:	Protective overalls and shoes/ boots recommended.
Hygiene measures:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

(1) According to Health & Safety Executive Document EH40

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GEOCEL® 580 – OIL BASED MASTIC**9. Physical and Chemical Properties.****Appearance****Form:** Paste**Colour:** White, Buff, Grey**Odour:** Slight solvent**Safety related information****PH:** Not determined**Boiling point/Boiling range:** Not determined**Melting point/Melting range:** Not determined**Flashpoint:** White spirit 37°C but product is viscous and does not support combustion.**Flammability (solid, gas):** Not determined**Auto flammability:** Not determined**Explosive properties:** Not determined**Oxidising properties:** Not determined**Vapour pressure:** Not determined**Specific gravity:** 1.60**Solubility in water:** Insoluble**Solubility in fat:** Not determined**Oil/water partition coefficient:** Not determined**Other data****Vapour density (air=1):** Not determined**Evaporation rate (Ethyl Ether=1):** Not determined**Viscosity:** Not determined**% Volatiles:** Not determined**Molecular weight:** Not determined

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

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GEOCEL® 580 – OIL BASED MASTIC**10. Stability and Reactivity.****Stability:** Stable**Reactivity:** Conditions to avoid: May react with strong oxidants. Decomposition can occur above 100°C after loss of any volatile components.**11. Toxicological Information.****On contact with eyes ³:** May cause eye irritation.**On skin contact ³:** A low potential skin sensitiser. May produce minimal skin irritation after prolonged contact.**If inhaled ³:** Inhalation of the vapour may cause slight irritation of the nose and upper respiratory tract.**On ingestion ³:** May cause 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.**LC50:** Not determined**LD50:** (oral rat) < 2000 mg/kg¹ 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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GEOCEL® 580 – OIL BASED MASTIC**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:** Do not release into surface waters**Terrestrial:** Not determined¹ 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 surplus material avoid contact with the eye and skin. Wear impervious gloves / overalls, chemical safety goggles and suitable respiratory protection. Do not wash into drains. Do not mix with other waste materials.**Packaging disposal:** Dispose of in accordance with regional and / or national regulations.**14. Transport Information.**

Not classified as "Hazardous for Transport"

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GEOCEL® 580 – OIL BASED MASTIC**15. Regulatory Information.****Labelling according to EEC Directive**

This product has been assessed using the health and safety criteria laid down in the EEC Directives on the Control of Dangerous Substances and Preparations. It is found not to be classified using the health and safety criteria.

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

National legislation / regulations**EINECS:****TSCA:****MITI:****DSL:****AICS:**

Changes have been made to the following sections in this version:

According to 93/18/EEC as adapted for the 3rd time to Technical Progress Commission Directive 88/379/EEC

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16. Other Information.

This product safety data sheet was prepared in compliance with Commission Directive 93/112/EC, 67/548/EEC and 88/379/EEC 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 of 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 88/379/EEC.

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 Limited 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 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.