



Phoenix Way, Garngoch Industrial Estate  
Gorseinon, Swansea SA4 9WF

Tel 01792 895906 Fax 01792 899189  
info@permasoiluk.com www.permasoiluk.com

**IMPORTANT :- Wear Gloves, dust mask & eye protection during application**

## MATERIAL SAFETY DATA SHEET

PERMA-SOIL

### 1. PRODUCT AND COMPANY DETAILS

PRODUCT NAME :-

Perma-Soil Soil Stabiliser

MANUFACTURED BY :-

Perma-Soil (UK) Ltd  
Phoenix Way  
Garngoch Industrial Estate  
Gorseinon  
SWANSEA  
SA4 9WF

Tel :- +44 (0) 1792 895906

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Perma-soil contains irritant substances such as Portland cement with additions of other inert or non-harmful substances.

### 3. HAZARDS INFORMATION

Permasoil is a cement-based product. Contact with Perma-Soil mixed with water or body fluids (e.g. Sweat or eye fluid) should be avoided as it may irritation, dermatitis or burns. Risk of serious damage to eyes. Wear suitable protective clothing & eye/face protection. Keep out of reach of children and away from food, drink & animal feeding stuffs.

Hazard Symbols

Irritant

Risk Phrases

R36/38: Irritating to eyes and skin

POTENTIAL HEALTH EFFECTS

A. Possible Routes of Entry

Inhalation	Skin	Eyes	Ingestion
	X	X	

B. Effects of Overexposure; Will cause irritation to expose skin and other tissue.

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**4. FIRST AID MEASURES**

In case of contact with eyes, rinse immediately with plenty of water. After contact with skin, wash immediately with plenty of water.

Skin Contact: Flush affected areas with water. Remove any contaminated clothing and launder before re-use.  
Seek medical aid if irritation persists.

Eye Contact: Flush with water for at least 15minutes. Seek medical aid if irritation persists.

Inhalation: Unlikely due to nature of substance.

Ingestion: Unlikely but give water to drink and seek medical advice showing a copy of this document.

**5. FIRE-FIGHTING MEASURES**

The substance is not combustible and in the event of fire use extinguishing media appropriate to the cause of fire and the surrounding area.

**6. ACCIDENTAL RELEASE MEASURES**

Do not flush into drains or watercourses.

Do not dispose of with other general waste.

If the substance cannot be utilised for its intended purpose shovel into dry containers and dispose of via a licensed operator giving a copy of this document.

**7. HANDLING AND STORAGE**

This product must be stored in unopened bags/buckets clear of the ground in cool dry conditions and protected from excessive draught.

If stored correctly, as detail in the panel above and used within TWO months (61days) of the date shown on the side of the bag/bucket; the activity of the reducing agent(1) will be maintained and this product will contain, when mixed with water, no more than 0,0002% (2 ppm) soluble chromium (VI) of the total dry weight of the cement.

(1) Added to control the level of soluble chromium (VI)

Use of this product after the end of the declared storage period (see panel above) may increase the risk of an allergic reaction

Handle carefully and avoid spillage.

Store in a dry place away from acids

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory Protection:	If dust is in evidence wear a disposable "nuisance dust" mask.
Hand Protection:	Always wear waterproof gloves when decanting from bags or containers. Wash hands thoroughly when work is completed or if direct contact with skin is suspected.
Eye Protection:	Avoid transferring the substance to the facial area from contaminated gloves or hands.
Skin Protection:	Avoid contact with skin. This is especially important when working in hot weather when large areas of the skin may be exposed. Remove any spillage into Wellington boots immediately. Take precautions as for cement.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Brown or Grey powder with oily odour
pH:	Not known
Solubility:	0.79g/100g water

**10. STABILITY AND REACTIVITY**

Stability:	Normally stable but avoid contact with heat, sparks, flame and oxidising agents
Materials to avoid:	All Acids. Strong oxidising agents. Flammable and/or combustible materials Hazardous decomposition products: None

**11. TOXICOLOGICAL INFORMATION**

Toxic Dose LD50:	10g/Kg (oral rat)
Health Warning:	This product contains substances that may cause skin/eye irritation. Irritant to eyes and mucous membranes

Symptoms:

Eye Contact:	There may be irritation, redness and watering
Skin Contact:	Irritation or pain may occur at the point of contact. There may be redness or whiteness of the skin and in severe exposure blistering may occur.
Inhalation:	There will be a feeling of tightness to the chest with shortness of breath, a cough and a sore throat.
Ingestion:	In the very unlikely event that this product is swallowed there may be soreness and redness of the mouth with pain and difficulty in swallowing. Nausea may occur.

Acute and Chronic Health Hazards:

Repeated exposure may cause chronic eye irritation  
Carcinogenicity None of the ingredients of this product have evidence of carcinogenic properties.

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**12. ECOLOGICAL INFORMATION**

Perma-soil becomes inert and insoluble during the curing process that is 80% completed within the first hour. The curing process includes action to absorb ground water to activate the ingredients of the products and to help stabilise the back-fill therefore inhibiting the leaching of ingredients into the surrounding sub-soil. The national ground water and contaminated land centre of the environment agency have conducted extensive searches of substance databases and concluded that in the unlikely event of any plant take-up the ingredients of Perma-soil would not be harmful to animals or humans. Extensive field trials conducted throughout the USA for the Gas Research Council of Chicago concluded that Perma-soil “does not adversely affect pipe materials, is non-toxic and safe for work crews to handle”

**13. DISPOSAL CONSIDERATIONS**

Arrange disposal by a licensed disposal operator.

**14. TRANSPORT INFORMATION**

Keep dry and away from Oxidising Agents

**15. REGULATORY INFORMATION**

Label for supply: Irritant  
Risk Phrases: R36/38 Irritating to eyes and skin  
Safety Phrases: S13 Keep away from food, drink and animal feeding stuffs  
S24/25 Avoid contact with skin and eyes  
S36/37 Wear suitable protective clothing and gloves.  
S45 In case of accident or if you feel unwell, seek medical advice immediately  
(Show the label where possible)

**UK Regulatory References:**

Health and Safety at work etc. Act 1974  
Chemicals (Hazard Information and Packaging for supply) Regulations 1994  
Chemicals (Hazard Information and Packaging for supply) (Amendment) Regulations 1997.  
Control of Substances Hazardous to Health Regulation 1999.  
Control of Pollution Act 1974.  
Environmental Protection Act 1990.  
Special Waste Regulations 1996.

**16. OTHER INFORMATION**

If sold to the general public the following safety phrases must appear on the packaging:  
S1/2 Keep locked up and out of reach of children

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