

**SAFETY DATA SHEET**  
**Conforms to OSHA HazCom 2012 Standard**

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**Section 1 - Identification**

Product Identifier PERMA SHIELD Semi-Permanent / Stain Resistant Water Based Sealer  
Recommended use Floor sealer.  
Recommended restrictions For commercial and industrial use only.  
Manufacturer / Importer / Supplier / Distributor Information  
Company Name Scotland Wholesale Company  
Address U.S. 401 South · Laurinburg, NC 28352  
Telephone  
Supplier Email  
Contact  
Emergency Phone (910) 276-2545

**Section 2 - Hazard(s) Identification**

Physical Hazards Not Classified  
Health Hazards Not Classified  
  
OSHA defined hazards Not Classified.  
Label Elements  
Hazard Symbol None.  
Signal Word Not Available  
Hazard statement Not available.  
Precautionary statement  
Prevention Observe good industrial hygiene practices.  
Response Wash thoroughly after handling.  
Storage Store away from incompatible materials.  
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.  
  
Hazard(s) not otherwise classified (HNOC) None known.

**Section 3 - Composition/Information on ingredients**

Mixture

Hazardous Components

Ingredient Name	CAS #	%
2-(2-Butoxyethoxy) Ethanol	112-34-5	1 - 5
Diethylene Glycol Monoethyl Ether	111-90-0	1 - 5
Tris(2-Butoxyethyl) Phosphate	78-51-3	1 - 5

Composition Comments

**Section 4 - First-aid Measures**

Inhalation Move to fresh air. Get medical attention if irritation persists.  
Skin contact Wash skin with soap and water. Get medical attention if irritation persists.  
Eye contact Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation persists.  
  
Ingestion Rinse mouth thoroughly with water. Seek medical advice.  
Most Important symptoms /effects, acute and delayed Mild eye irritation.  
Indication of immediate medical attention and special treatment Treat symptomatically.  
General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Section 5 - Fire-fighting measures**

Suitable extinguishing media Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.  
Unsuitable extinguishing media Not available.

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Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instruction	Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.
General fire hazards	This product is not flammable or combustible.
Specific Methods	

## Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.	Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up	SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water. LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

## Section 7 - Handling and storage

Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.
Conditions for safe storage, including any incompatibilities	Store away from incompatible materials. Keep container closed.

## Section 8 - Exposure control/personal protection

### Occupational exposure limits

#### US. Workplace environmental Exposure Level (WEEL) Guides

Component	Type	Value
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	TWA	140 mg/m <sup>3</sup> , 25 ppm

#### US. ACGIH Threshold Limit Values

Component	Type	Value
2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)	TWA	10 ppm

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Use personal protective equipment as required. Keep working clothes separately.
Appropriate engineering controls	Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.
Skin protection	
Hand protection	Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9 - Physical and chemical properties

Appearance	Opaque Liquid.
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<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	White.
<b>Odor</b>	Acrylic.
<b>Odor threshold</b>	Not available.
<b>pH (Concentrate)</b>	8.2
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	None to boiling.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Equal to water.
<b>Vapor density</b>	Equal to water.
<b>Relative density</b>	1.02 ± 0.01
<b>Relative density temperature</b>	75 °F (23.89 °C)
<b>Solubilities</b>	Soluble
<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not Available
<b>Decomposition temperature</b>	Not Available
<b>Viscosity</b>	< 10 cP
<b>Viscosity Temperature</b>	75 °F (23.89 °C)

**Section 10 - Stability and reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reaction</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide. Carbon dioxide.

**Section 11 - Toxicological information**

**Information on likely routes of exposure**

<b>Ingestion</b>	No adverse effects due to ingestion are expected.
<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
<b>Eye contact</b>	May cause eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause eye irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

**Information on toxicological effects.**

<b>Acute toxicity</b>	Not expected to be hazardous.					
Components	Level	Type	Code	Species	Results	
2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)	Acute	Dermal	LD50	Rabbit	2764 mg/kg, (Male)	
<b>Skin corrosion/irritation</b>	Prolonged or repeated contact may dry skin and cause irritation.					
<b>Serious eye damage/ eye irritation</b>	May cause eye irritation.					
<b>Respiratory sensitization</b>	Not classified.					
<b>Skin sensitization</b>	Not available.					

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Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Chronic effects	
Further information	

## Section 12 - Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	The product is expected to be biodegradable.
Bioaccumulative potential	Not known.
Partition coefficient n-octanol / water log (Kow)	
Components	Results
2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)	0.56
Mobility in soil	Not available.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	None known.

## Section 13 - Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Waste codes should be assigned by the user based on the application for which the product was used.
Waste from residues / unused products	Dispose in accordance with all applicable regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14 - Transport information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	This substance/mixture is not intended to be transported in bulk.
General Information	

## Section 15 - Regulatory Information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)	Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- CERCLA Hazardous Substance List (40 CFR 302.4	Not listed.
Components	Result
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	LISTED
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	LISTED
2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)	LISTED
Superfund Amendments and Reauthorization Act of 1986 (SARA)	

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<b>Hazard Categories</b>	Immediate Hazard	No
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS #	% by wt.
Diethylene Glycol Monoethyl Ether	111-90-0	1 - 5
Tris(2-Butoxyethyl) Phosphate	78-51-3	1 - 5
2-(2-Butoxyethoxy) Ethanol	112-34-5	1 - 5

**Other federal regulations**

Components

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

**Clean Air Act (CAA) Section**

**112 Hazardous Air Pollutants**

**Clean Air Act (CAA) Section** Not regulated.

**112(r) Accidental Release Prevention (40 CFR 68.130)**

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US.Massachusetts RTK - Substance List**

Components

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US.New Jersey Worker and Community Right-to-Know Act**

Components

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US.Pennsylvania RTK - Hazardous Substances**

Components

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US.Rhode Island RTK**

Components

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US - California Proposition 65 - Carcinogens Reproductive**

Not listed.

**International Inventories**

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

\*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**Section 16 - Other information, including date of preparation or last version**

Issue date 5/28/2014

Revision date

Version # 01

Further information

List of abbreviations

References

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