

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name PermaSEAL Façade Cream
Product form Cream
Product code WRPFC5

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category Consumer use
Use of the substance/ mixture Waterproofing agent

1.3. Details of the supplier of the safety data sheet

Permagard Products Ltd
Chittening Industrial Estate
Avonmouth
Bristol
BS11 0YB
England

Tel: 0117 982 3282

Email: sales@permagard.co.uk
Web: www.permagard.co.uk

1.4. Emergency telephone number

Emergency tel: 0117 982 3282
(Office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

No labeling according to GHS required.

Code	Additional Labelling
EUH208	Contains chloromethylisothiazolinone and methylisothiazolinone (3:1), May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Biocidal Products Regulation (528/2012)

Contains a 3:1 mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one as preservative for products during storage according to regulation (EC) no 528/2012 art. 58(3).

2.3. Other hazards

Inhalation of aerosol spray may damage health.

The product hydrolyses under formation of ethanol (CAS-Nr. 64-17-5). Ethanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2 Chemical characterisation: Mixtures Description:

3.2.1 Chemical characteristics

Alkoxy silanes + siloxane + water + solvent.

3.2.2 Hazardous Ingredients

Type	CAS NO.	EC-No.	Substance	Content %	Classification according to regulation (EC) No.1272/2008*	Comment
		REACH no.				
INHA	Not applicable	927-676-8 01-2119456377-30	Hydrocarbons,C12-C16,isoalkanes,cycles,<2% aromatics	>40 - <50	Asp.Tox. 1 H304 EUH066	[1]
INHA	64742-48-9	265-150-3 01-2119456810-40	Aliphatic and naphthenic hydrocarbons	>10 - <15	Asp. Tox. 1 H304 EUH066	[1]
INHA	55965-84-9		Chloro-methyl-isothiazolin-one and methyl-isothiazolin-one (3:1 mix)	>=0,001- <0,0015	Acute Tox. 3 oral; H301 Acute Tox. 2 dermal; H310 Acute Tox. 2 by inhalation/dust/mist; H330 Skin Corr. 1C; H314 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 EUH071	[1] Ma = 100 Mc = 100

Type: INHA: ingredient, VERU: impurity.

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance.

Ma = M-factor for acute aquatic toxicity.

Mc = M-factor for chronic aquatic toxicity.

*Classification codes are explained in section 16.

Hydrocarbon mixtures were classified in accordance with the applicable notes in Annex VI of Regulation (EC) No. 1272/2008.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH),Article 57) in amounts above $\geq 0.1\%$

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of an accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Material cannot be inhaled under normal conditions.

After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3. Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**

Not applicable.

Extinguishing media which must not be used for safety reasons:

Not applicable.

5.2. Special hazards arising from the substance or mixture

Ambient fire may lead to hazardous fumes. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes.

5.3. Advice for firefighters**Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

General information

Product does not burn. Use extinguishing measures appropriate to the source of the fire.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2. Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3. Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: absorb with a neutral (non-acidic/non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

6.4. Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage**7.1. Precautions for safe handling****General information:**

Always stir well before use.

Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

Precautions against fire and explosion:

Product may release ethanol. Flammable vapours may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place. Protect against sun. Protect against frost. Store container in a well ventilated place.

Minimum temperature allowed during storage and transport: 1 °C

Maximum temperature allowed during storage and transport: 35 °C

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Maximum airborne concentrations at the workplace:

Substance	Type	Mg/m ³	ppm	Dust fract.	Fibre/m ³
Ethanol	OEL	1920,0	1000,0		
Aerosol -inhalable fraction		10,00			

The aerosol limit specified is a recommendation should aerosol be formed during processing.

Derived no-Effect level (DNEL)

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics

Area of use:	Value
General	No quantitative data are available

Aliphatic and naphthenic hydrocarbons

Area of use:	Value
General	No quantitative data are available

Predicted No Effect Concentration (PNEC):

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics

Area of use:	Value
General	No quantitative data are available

Aliphatic and naphthenic hydrocarbons

Area of use:	Value
General	No quantitative data are available

8.2. Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Do not eat, drink or smoke when handling.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

Personal protective equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapours; ammonia/amines), according to acknowledged standards such as EN 14387.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapours; ammonia/amines; particles), according to acknowledged standards such as EN 14387.

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

Recommendation: Protective goggles.

Hand protection

Use of protective gloves is recommended when handling the material, according to recognised standards such as EN374.

Recommended glove types	Protective gloves made of nitrile rubber.
Thickness of the material	>0,1mm
Breakthrough time	480 min

Recommended glove types	Protective gloves made of butyl rubber.
Thickness of the material	>0,3mm
Breakthrough time	480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured breakthrough time.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Information on basic physical and chemical properties.

Property:	Value:	Method:
Appearance		
Physical state	Liquid	
Form	Paste	
Colour	Yellowish	
Odour		
Odour	Petroleum hydrocarbon (solvent)	
Odour limit		
Odour limit	No data available	
pH-Value		
pH-Value	4,5 – 7 at 25°C (100%)	(Indicator strips)
Melting point/freezing point		
Melting point/melting point	Not applicable	
Initial boiling/boiling range		
Boiling point/boiling range	Not applicable	
Flash point		
Flash point	65°C	(ISO 2592)
Sustained combustibility	>110°C	(ISO 9038)

Evaporation rate

Evaporation rate No data available

Upper/lower flammability or explosive limit

Lower explosion limit (LEL) 0,6 Vol-% (Not specified)

Upper explosion limit (UEL) 7 Vol-% (Not specified)

Vapour pressure

Vapour pressure No data available

Solubility(ies)

Water solubility/miscibility Emulsifiable

Vapour density

Relative gas/vapour density No data known

Relative Density

Relative Density 0,848 (25°C; 1013 hPa) (DIN 51757)
(water / 4°C = 1,00)

Density 0,848 g/cm³ (25°C;1013 hPa) (DIN 51757)

Partition coefficient: n-octanal/water

Partition coefficient: n-octanal/water No data known

Auto-ignition temperature

Ignition temperature 374°C (EN14522)

Decomposition temperature

Thermal decomposition No data available

Viscosity

Viscosity(dynamic) Not applicable

Molecular mass

Molecular mass Not applicable

9.2. Other information

Explosion Limits: Explosion limits for released ethanol: 3.5 - 15%(V).

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity, Chemical stability, Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4. Conditions to avoid

Heat, open flames, and other sources of ignition.

10.5. Incompatible materials

Reacts with: basic substances and acids . Reaction causes the formation of: ethanol .

10.6. Hazardous decomposition products

By hydrolysis: ethanol . The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Assessment:

Inhalable aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to a large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition), an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases, exposures to inhalable aerosols must be prevented by adequate technical measures.

Acute toxicity estimate (ATE):

ATEmix (oral): > 2000 mg/kg

Data on substances:

Aminofunctional polydimethylsiloxane:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 2000mg/kg	Rat	Conclusion by analogy

11.1.3 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substance:

Aminofunctional polydimethylsiloxane:

Result/Effect	Species/Test system	Source
No skin irritation	Rabbit	Conclusion by analogy

11.1.4 Serious eye damage / eye irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substance:

Aminofunctional polydimethylsiloxane:

Result/Effect	Species/Test system	Source
No eye irritation	Rabbit	Conclusion by analogy

11.1.5 Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Aminofunctional polydimethylsiloxane:

Route of exposure	Result/Effect	Species/Test system	Source
Dermal	Does not cause skin sensitisation	Guinea pig; maximisation test	Conclusion by analogy OECD 406

11.1.6 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substance:

Aminofunctional polydimethylsiloxane:

Result/Effect	Species/Test system	Source
Negative	Mutation assay (in vitro) bacteria cells	Test report OECD 471

11.1.7 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Aspiration hazard

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.12 Further toxicological information

Data on substances:

Aliphatic and naphthenic hydrocarbons:

According to literature aliphatic hydrocarbons are slightly irritating to the skin and mucuous membranes and have a skin drying and narcotic effect. If the lungs are directly affected (e.g. by aspiration), inflammation of the lungs may occur.

Product of hydrolysis (Ethanol):

Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.

SECTION 12: Ecological information**12.1 Toxicity****Assessment:**

For the product as a whole, no test data is available.

Data on substances:

Data derived for the product as a whole are of higher priority than data for single ingredients.

Aminofunctional polydimethylsiloxane

Result/Effect	Species/Test system	Source
LC50:> 100mg/l	Static test Oncorhynchus mykiss (rainbow trout) (96 h)	Conclusion by analogy
EC50:> 100 mg/l	Static test Daphnia magna (Water flea) (48 h)	Conclusion by analogy

12.2 Persistence and degradability**Assessment:**

For the product as a whole, no test data is available.

Data on substances:**Aminofunctional polydimethylsiloxane:****Biodegradation:**

Result	Test system/Method	Source
Good elimination	DOC- decrease	Conclusion by analogy OECD 302B

Product of hydrolysis (Ethanol):

The hydrolysis product (Ethanol) is readily biodegradable.

12.3 Bioaccumulative potential**Assessment:**

No data known.

12.4 Mobility in soil**Assessment:**

No data known.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

None known.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****13.1.1 Material****Recommendation:**

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.1.2 Uncleaned packaging**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

13.1.3 Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14: Transport information

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:

Valuation : Not regulated for transport

Railway RID:

Valuation : Not regulated for transport

Transport by sea IMDG-Code:

Valuation : Not regulated for transport

Air transport ICAO-TI/ATA-DGR:

Valuation : Not regulated for transport

14.5 Environmental hazards

Hazardous to the environment: no.

14.6 Special precautions for user

Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

Not applicable

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

Regulation (EU) 2019/1148 on marketing and use of explosives precursors – ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable.

Regulation (EU) 2019/1148 on marketing and use of explosives precursors – ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable.

Details of international registration status

Japan	ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
New Zealand	NZIoC (New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory, (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.
Australia	AIIC (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
Canada	DSL (Domestic Substance List) : This product is listed in, or complies with, the substance inventory.
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances) : This product is not listed or in compliance with the substance inventory.
United States of America	TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan	TCSI (Taiwan Chemical Substance Inventory) :

European Economic Area (EEA)

This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of the obligation.

REACH (Regulation (EC) No 1907/2006) :

General note : the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter

South Korea (Republic of Korea)

AREC (Act on Registration and evaluation of chemicals; K-REACH) :

Please approach your regular contact for more detailed information.

15.2. Chemical safety assessment

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the safety-related information.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Explanation of the GHS classification code:

Asp. Tox. 1; H304	Aspiration hazard Category 1; May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.
Asp. Tox. 1; H304	Aspiration hazard Category 1; May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.
Acute Tox. 3; H301	Acute toxicity Category 3; Toxic if swallowed.
Acute Tox. 2; H310	Acute toxicity Category 2; Fatal in contact with skin.
Acute Tox. 2; H330	Acute toxicity Category 2; Fatal if inhaled.
Skin corr. 1C; H314	Skin corrosion/irritation Category 1C; Causes severe skin burns and eye damage.
Skin Sens. 1A; H317	Skin sensitisation Category 1A; May cause an allergic skin reaction.
Aquatic Acute 1; H400	Short-term (acute) aquatic hazard Category 1; Very toxic to aquatic life.
Aquatic Chronic 1; H410	Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.
Eye Dam. 1; H318	Serious eye damage/eye irritation Category 1; Causes serious eye damage.
EUH071	Corrosive to the respiratory tract.

SDS EU_NSC

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.