COSHH DATA SHEET

ENVIROGRAF®

HS143-10-2012

Product Number: 143

Repellit

REPELLIT is a powerful one-coat system that can be applied by brush or roller offering a deeper protective water barrier than other thinner masonry coatings on the market.

This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- (*Appendix 57) Repellit*

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

Appendix 57

REPELLIT

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

1.1 Product identifier
Commercial product name: REPELLIT

1.2 Relevant identified uses of the substance or mixture and uses advised against
Industrial.
Use of substance / preparation:
Modifying agent for: Building materials

1.3 Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER:	Envirograf	
ADDRESS:	Envirograf House, Barfrestone, Nr. Dover, Kent, CT15 7JG	
TELEPHONE/FAX:	01304 842555	01304 842666

EMERGENCY PHONE NUMBER: 01304 842555

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (GHS):

Class	Category	Route of exposure
-	-	

Classification (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	-

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

2.2 Label elements
Labelling (GHS):

H-Code	Hazard Statements
-	-
P-Code	Precautionary Statements
-	-

Labelling (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	-
S-Phrase	Description
S-	-

2.3 Other hazards
Inhalation of aerosol spray may damage health.
Product hydrolyses, producing ethanol (CAS no. 64-17-5). Ethanol is highly flammable

SECTION 3: Composition/information on ingredients

3.1 Substances
not applicable

3.2 Mixtures

3.2.1 Chemical characterization (preparation)
Alkoxy silanes + siloxane + water

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After inhalation:
Provide fresh air.

After contact with the skin:
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 contact with the eyes:
Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

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
No data are available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media:
extinguishing powder , alcohol-resistant foam , carbon dioxide , dry sand .

Extinguishing media which must not be used for safety reasons:
-

5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products: alcohols . Do not allow extinguishing water to enter sewerage, the soil or inshore waters. Hazardous combustion products: nitrous gases .

5.3 Advice for firefighters
Special protective equipment for fire fighting:
Use respiratory protection independent of recirculated air.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid inhaling mists and vapours. Avoid contact with eyes and skin.

6.2 Environmental precautions
Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

6.3 Methods and material for containment and cleaning up
Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations.

Further information:
Eliminate all sources of ignition.

6.4 Reference to other sections
Relevant information in other sections have 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
Precautions for safe handling:
In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled
substance increases risk of slipping.

Precautions against fire and explosion:
Keep away from open flames, heat and sparks. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water. Product can separate methanol. Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. In partly emptied containers formation of explosive mixtures is possible.

7.2 Conditions for safe storage, including any incompatibilities
Conditions for storage rooms and vessels:
Protect against frost.

Advice for storage of incompatible materials:
none known

Further information for storage:
Keep container tightly closed and store in a cool, well ventilated place.

Minimum temperature allowed during storage and transportation: 0 °C

7.3 Specific end use(s)
No data are available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m3	ppm	Dust fract	Fibre/m3
64-17-5	Ethanol	OEL 1	920,0	1000,0		

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled
General protection and hygiene measures:
Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling.

Personal protection equipment:
Respiratory protection
In accordance with instructions: not required . In case of aerosol- or mist formation use respiratory protection. fine dust mask without protection rating .

Hand protection
Recommendation: PVC gloves .

Eye protection
Recommendation: protective goggles .

8.2.2 Exposure to the environment limited and controlled
Prevent material from entering surface waters and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General information:
Physical state / form.....: paste
Colour .....: white to yellowish
Odour .....: slight

Important information about the protection of health, safety and the environment:
Property: Value: Method:

Melting point / melting range .....: not determined
Boiling point / boiling range .....: 100 °C at 1013 hPa
Flash point.....: 64 °C (ISO 3679)
Sustained combustibility.....: > 95 °C (ISO 9038)
Ignition temperature .....: 265 °C
Lower explosion limit (LEL) .....: not determined
Upper explosion limit (UEL).....: not determined
Vapour pressure.....: 23 hPa at 20 °C
Density .....: approx. 0,9 g/cm³
Water solubility / miscibility.....: completely miscible at 20 °C
pH-Value .....: not applicable
Viscosity (dynamic) .....: not applicable

9.2 Other information
Re 9.2 solubility in water: Hydrolytic decomposition occurs. 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
none known .

10.5 Incompatible materials
Reacts slowly with: water and acids . Reacts with: acids and alkalis . Reaction causes the formation of: ethanol

10.6 Hazardous decomposition products
By hydrolysis: ethanol.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
11.1.1 Acute toxicity
Product details:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD50: > 2000 mg/kg	rat	Conclusion by analogy
dermal	LD50: > 2000 mg/kg	rat	Conclusion by analogy OECD 402
by inhalation (spray / dust)	LC50: > 5,2 mg/l; 4 h No mortality with the given dose.	rat	test report

11.1.2 Skin corrosion/irritation
Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy OECD 404

11.1.3 Serious eye damage / eye irritation
Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy OECD 405

11.1.4 Respiratory or skin sensitization
Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligmann	Conclusion by analogy OECD 406

11.1.5 Germ cell mutagenicity
Assessment:
According to our present state of knowledge not mutagenic.

11.1.6 Carcinogenicity
Assessment:
For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity
Assessment:
For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity (single exposure)
Assessment:
For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)
Assessment:
For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard
Assessment:
Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.1.11 Further toxicological information
Product(s) of hydrolysis: According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degreases the skin, is narcotic and may cause liver damage. Remark for the listed toxicological data: Evaluation in analogy to similar product.

SECTION 12: Ecological information

12.1 Toxicity
Assessment:
According to current knowledge adverse effects on water purification plants are not expected.

12.2 Persistence and degradability
Assessment:
Product(s) of hydrolysis: ethanol and silanol- and/or siloxanol-compounds . Elimination by adsorption to activated sludge. Silicone content: Biologically not degradable. The hydrolysis product (Ethanol) is readily biologically degradable.

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 are available.

12.6 Other adverse effects
none known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:
Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

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/IATA-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 have to be considered.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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.
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.

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

15.3 Other international regulations

Details of international registration status:
Listed on or in accordance with the following inventories:
EINECS - Europe
ECL - Korea
ENCS - Japan
AICS - Australia
IECSC - China
DSL - Canada
PICCS - Philippines
TSCA - USA

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 required 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.