Safety Data Sheet

STARCOAT HYBRID DETAIL
Liquid Waterproofing

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

1.1 Product identifier
Trade name: STARCOAT HYBRID DETAIL
UFI: D850-00N5-W006-62MG

1.2 Relevant identified uses of the substance or mixture and uses advised against
Sector of Use
SU19 Building and construction work
SU21 Consumer uses: Private households/ general public/ consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Application of the substance / the mixture Liquid waterproofing for roof details

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Axter Ltd, Harbour Landing, Fox's Marina,
The Strand, Wherstead, Ipswich IP2 8NJ
Tel: +44 (0) 1473 724056
Email: info@axterltd.co.uk
Website: www.axter.co.uk

1.4 Emergency telephone:

Axter Ltd - +44 (0) 1473 724056
(this line is open from 8.00 am to 5.30 pm, Monday to Friday).
In the event of a medical enquiry involving this product, members of the public should contact:
NHS 111
a doctor or
a local hospital accident and emergency department.
The NPIS (National Poisons Information Service) helpline is available for enquiries from medical professionals only.
Tel: 0344 892 0111

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Sens.1	H317 May cause an allergic skin reaction
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms

GHS07

Signal word Warning

Hazard determining components of labelling:

Trimethoxyvinylsilane

Benzotriazole derivative mixture

Hazard statements

H317	May cause an allergic reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/ attention.
P501	Dispose of contents/container in accordance with local/regional/ national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Determination of endocrine-disrupting properties
The mixture does not contain any substances included in the list established according to Article 59(1) of UK REACH for having endocrine-disrupting properties, or identified as having endocrine disrupting properties according to the criteria set out in Delegated Regulation (EU) 2017/2100 or Delegated Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1%.

Section 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 2943-75-1 EINECS: 220-941-2 Reg.nr.: 01-2119972313-39	triethoxyoctylsilane Skin irrit. 2, H315	≥10 - ≤25%
CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52	trimethoxyvinylsilane Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens, 1B, H317	≥2.5 - ≤5%
ELINCS: 400-830-7	reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3- (3- (2H-benzotriazol-2-yl) -5- tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) Aquatic Chronic 2, H411 Skin Sens. 1, H317	1%

Additional information:
For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1 Description of first aid measures

General information:
Immediately remove any clothing soiled by the product.
When in doubt or if symptoms are observed, seek medical advice.

After inhalation:
Supply fresh air.

After skin contact:
Wash with soap and water and rinse well.

After eye contact:
Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.

After swallowing:
Rinse mouth.
If symptoms persist, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO2). Sand. Water mist.

5.2 Special hazards arising from the substance or mixture
Not applicable
No further relevant information available.

5.3 Advice for firefighters
Protective equipment:
Wear fully protective suit.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Not required.

6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7: Handling and storage

7.1 Precautions for safe handling
No special precautions are necessary if used correctly.

Information about fire - and explosion protection:
No special measures required.
The product is not flammable.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool, dry place in tightly closed receptacles.
Store at temperature between 0^0C and 35^0C.
Store only in the original receptacle.

Information about storage in one common storage facility:
Not required.

Further information about storage conditions:
Protect from frost.
Store in dry conditions.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs:		
triijzertetraoxide		
Inhalative	DNEL	10 mg/m³ (worker)

Additional information: The lists valid during the making were used as a basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment:

General protective and hygienic measures
Wash hands before breaks and at the end of work.

Respiratory protection
Not required.

Hand protection
Protective gloves.

Material of gloves
Rubber gloves.
Recommended thickness of the material: ≥ 0.38mm
The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
> 60min.
The exact break through time has to be found out by the manufacturer of the protective gloves and must be observed.

Eye/face protection
Goggles recommended during refilling.

Body protection
Protective work clothing.

Environmental exposure controls
Prevent seepage into sewage system, workpits and cellars.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour	Grey
Odour	Mild
Odour threshold	Not determined.
Melting point/freezing point	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower	Not determined.
Upper	Not determined.
Flash point	100^{0}C
Auto-Ignition temperature	Not determined.
Decomposition temperature	Not determined.
pH	Not applicable.
Viscosity	
Kinematic viscosity	Not determined.
Dynamic at 20°C	35,000mPas
Solubility	
Water	Partly miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure	Not determined.
Density and/or relative density	
Density at 20°C	≈ 1.33g/cm^3
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information — No further information available.

Appearance	
Form	Viscous.
Ignition temperature	Product is not self-igniting.
Explosive properties	Product does not present an explosion hazard.
Solvent content	
Organic solvents	0%
VOC (EC)	≈ 0.1 - <0.2 g/l
Change in condition	
Softening point/ range	
Oxidising properties	Not determined.
Evaporation rate	Not determined.

Information with regard to physical hazard

Explosives	Void.
Flammable gases	Void.
Aerosols	Void.
Oxidising gases	Void.
Gases under pressure	Void.
Flammable liquids	Void.
Flammable solids	Void.
Self-reactive substances and mixtures	Void.
Pyrophoric liquids	Void.
Pyrophoric solids	Void
Self-heating substances and mixtures	Void.
Substances and mixtures, which emit flammable gases in contact with water	Void.
Oxidising liquids	Void.
Oxidising solids	Void.
Organic peroxides	Void.
Corrosive to metals	Void.
Desensitised explosives	Void.

Section 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
Reacts with peroxides.

10.4 Conditions to avoid:
Wet or damp areas.
Keep material well closed, material cures by exposure to air.

10.5 Incompatible materials:
No further relevant information available.

10.6 Hazardous decomposition products:
Hazardous decomposition products may be released during prolonged heating like smoke, carbon monoxide and dioxides.

Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
Starcoat Hybrid Detail		
Inhalative	LC50/4 h	>263-391mg/l (rat) (estimated)
CAS: 2943-75-1 triethoxyoctylsilane		
Oral Dermal	LD50 LD50 LC50/96 h	5,110 mg/kg (rat) 6,730 mg/kg (rat) >0.055 mg/l (fish)
CAS: 2768-02-7 trimethoxyvinylsilane		
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	7,120 mg/kg (rat) 3,540 mg/kg (rab) 11 mg/l (ATE)
triijzertetraoxide		
Oral	LD50	>5,000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity		
CAS: 2943-75-1 triethoxyoctylsilane		
EC50		> 0.049 mg/l (Daphnia magna)
CAS: 2768-02-7 trimethoxyvinylsilane		
Inhalative	LC50 EC50	191 mg/l (fish) 168 mg/l (Daphnia magna)
triijzertetraoxide		
Inhalative	LC50 EC50	>100 mg/l /96 h (Zebrafish) >100 mg/l /48 h (Daphnia magna)

12.2 Persistence and degradability
No further relevant information available.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Section 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Disposal should be in accordance with applicable regional, national and local laws and regulations.
Must not be disposed together with household waste. Do not allow product to reach sewage system.

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.

Section 14: Transport information

14.1	**UN number or ID number**	Not classified as hazardous for transportation regulations.
14.2	**UN proper shipping name** ADR, RID, ADN	Void.
14.3	**Transport hazard class(es)**	
14.4	**Packing group**	
14.5	**Environmental hazards**	Not applicable.
14.6	**Special precautions for user**	Not applicable.
14.7	**Maritime transport in bulk according to IMO instruments**	Not applicable.
	UN "Model Regulation"	Void.

Section 15: Regulatory information

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

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors
None of the ingredients is listed.

Reportable poisons
None of the ingredients is listed.

Directive 2012/18/EU
Named dangerous substances - ANNEX I
None of the ingredients is listed.

National regulations:
Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57
This product does not contain any SVHC's.

15.2 Chemical safety assessment
A Chemical Safety Assessment has not been carried out.

Section 16: Other information

The information given in this Safety Data Sheet is given in good faith and based on our current knowledge. We reserve the right to update and modify this document as necessary. The information in this sheet does not constitute a risk assessment for the workplace. While every effort is made to ensure that the information is accurate and up to date, it is not intended to form part of a contract or to imply any additional liability, which is expressly excluded.
This Safety Data Sheet (SDS) is calculated with a Calculation method based on GB CLP Annex I, parts 2 to 5.

Contact
www.axter.co.uk

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Disclaimer:
Axter Ltd reserves the right to modify and update this data at any time without prior notice. Only the latest version of this document is valid, available for download at www.axter.co.uk/downloads. Once downloaded, documents are uncontrolled. Users should always confirm they are referring to the latest version prior to use. Further assistance is available from Axter Ltd's Technical Support Team, email: technical@axterltd.co.uk, telephone: 01473 935008.

The intended use of this product should be verified with Axter Ltd prior to adoption to ensure its suitability and compliance with specifications, project requirements, industry regulations, legislation, good practice, installation techniques and all other relevant guidance. The user should ensure all necessary precautions are taken during handling, storage, installation and disposal of the product, and all regulations to guarantee safety of people and the environment are observed. Axter Ltd accepts no liability for non-compliant use of this product.