Safety Data Sheet

STARCOAT PMMA DETAIL
Liquid Waterproofing

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

1.1 Product identifier
Trade name: STARCOAT PMMA DETAIL
UFI: UERM-D8GQ-0009-HQ1Y

1.2 Relevant identified uses of the substance or mixture and uses advised against
Sector of Use
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU19 Building and construction work
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

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

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

GHS02 GHS07

Signal word Danger

Hazard determining components of labelling:

Methyl methacrylate
2-ethylhexyl acrylate
Triethylene glycol dimethacrylate

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection / face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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: Solution of an acrylic polymer in acrylates and methacrylates.

Dangerous components:		
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Note: D	≥25 - ≤40%
CAS: 103-11-7 EINECS: 203-080-7 Reg.nr.: 01-2119453158-37	2-ethylhexyl acrylate Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412 Note: D	≥10 - <25%
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21	Triethylene glycol dimethacrylate Skin Sens. 1B, H317	≥1 - ≤5%

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.
Take affected persons out of danger area and lay down.
Involve doctor immediately.

After inhalation:

Supply fresh air and call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately rinse with water.
If skin irritation continues, consult a doctor.

After eye contact
Rinse immediately with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eye wide open during flushing. Seek medical attention if symptoms persist.

After swallowing:
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
Headache
Dizziness
Allergic reactions

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:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents
Water with full jet

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Cool endangered receptacles with water spray.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.

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).
Ensure adequate ventilation.

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

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

Do not refill residue into storage receptacles.

Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

Highly volatile, flammable constituents are released during processing.

Keep ignition sources away - Do not smoke.

Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in a cool location.

Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions:

Storage in a collecting room is required.

Store under lock and key and with access restricted to technical experts or their assistants only.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace	
103-11-7 2-ethylhexyl acrylate	Short term value : 38 mg/m³, 5 ppm Long term value : 38 mg/m³, 5 ppm
CAS: 80-62-6 methyl methacrylate	
WEL	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm
DNELs	
80-62-6 methyl methacrylate	
Inhalative DNEL (population)	74.3 mg/m³ (long term - systemic effects) 105 mg/m³ (long term - local effects)
DNEL (worker)	210 mg/m³ (long term - systemic effects) 210 mg/m³ (long term - local effects)

103-11-7 2-ethylhexyl acrylate	
Dermal DNEL	242 µg/cm² (long term and short term)
Inhalative DNEL	37.5 mg/m³ (long term)

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

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory protection

Respiratory protection at high concentrations when limits are exceeded.
When vapours and aerosols occur respiratory protection with organic vapour filter type A.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection

Protective gloves.

Material of gloves

Butyl rubber, BR
The selection of the 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

The exact break through time has to be found out by the manufacturer of the protective gloves and must be observed.

For permanent contact, gloves made of the following materials are suitable

Butyl rubber, BR

Gloves made of the following materials are not suitable

Leather gloves.

Eye/face protection

Tightly sealed goggles.

Body protection

Use protective suit.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form	Liquid
Colour	Coloured
Odour	Ester-like
Odour threshold	Not determined.
Melting point/freezing point	Undetermined.
Boiling point or initial boiling point and boiling range	101°C (CAS: 80-62-6 methyl methacrylate)
Flammability	Highly flammable.

Lower and upper explosion limit

Lower	0.8 Vol % (CAS: 103-11-7 2-ethylhexyl acrylate)
Upper	12.5 Vol % (CAS: 80-62-6 methyl methacrylate)
Flash point	10°C.
Auto-ignition temperature	245°C (CAS: 103-11-7 2-ethylhexyl acrylate).
Decomposition temperature	Not determined.
pH	Mixture is non-soluble (in water).

Viscosity

Kinematic viscosity	Not determined.
Dynamic at 20°C	5,000 mPas

Solubility

Water	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20°C:	47 hPa (CAS: 80-62-6 methyl methacrylate).

Density and/or relative density

Density at 20°C	1.22 g/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 is not explosive. However, formation of explosive air/vapour mixtures are possible.

Solvent content

VOC (EC)	0.0 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	Highly flammable liquid and vapour.
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 and other radical forming substances.
Exothermic reaction.
Exothermic polymerisation.

10.4 Conditions to avoid:
Keep away from heat and direct sunlight.

10.5 Incompatible materials:
Reacts with peroxides.
Reacts with reducing agents

10.6 Hazardous decomposition products:
None at a proper use of the product.

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:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	> 3,858 - 38,580 mg/kg (rat)
CAS: 80-62-6 methyl methacrylate		
Oral Dermal	LD50 LD50	7,872 mg/kg (rat) > 5,000 mg/kg (rabbit)
CAS: 103-11-7 2-ethylhexyl acrylate		
Oral Dermal	LD50 LD50	5,660 mg/kg (rat) 8,480 mg/kg (rabbit)
CAS: 109-16-0 Triethylene glycol dimethacrylate		
Oral	LD50	> 5,000 mg/kg (rat)
CAS: 38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol		
Oral Dermal	LD50 LD50	25 mg/kg (rat) > 2,000 mg/kg (rat)

Primary irritant effect

Skin corrosion/irritation
Irritant.
Causes skin irritation.

Serious eye damage/irritation
Splashes in the eyes may cause irritation and reversible local damage.

Respiratory or skin sensitisation
May cause an allergic skin reaction.

STOT-single exposure
May cause respiratory irritation.

11.2 Information on other hazards
Endocrine disrupting properties
None of the ingredients is listed.

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity	
80-62-6 methyl methacrylate	
EC50 / 48h EC50 / 72h LC50 / 96h	69 mg/l (daphnia magna) (OECD 202) > 110 mg/l (Selenastrum capricornutum) (OECD201) > 79 mg/l (Rainbow trout) (OECD 203)
2-Ethylhexyl acrylate	
EC50 / 48h LC50 / 48h	17.45 mg/l (daphnia magna) 23 mg/l (Leuciscus idus)

12.2 Persistence and degradability

Easily biodegradable.

Other information

The product is easily biodegradable.

12.3 Bioaccumulative potential

Potential to bioaccumulate.

12.4 Mobility in soil

Groundwater can be contaminated.

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
Must not be disposed together with household waste. Do not allow product to reach sewage system.
Uncleaned packaging:
Recommendation:
Packaging may be reused or recycled after cleaning.
Dispose of packaging according to regulations on the disposal of packagings.

Section 14: Transport information

14.1 UN number or ID number

ADR	UN1263
RID	UN1263
ADN	UN1263
IMDG	UN1263

14.2 UN proper shipping name

ADR	UN1263, Paint related material, 3, III, D/E
RID	UN1263, Paint related material, 3, III, D/E
ADN	UN1263, Paint related material, 3, III, D/E
IMDG	UN1263, Paint related material, 3, III, (10^{0}C cc)
IATA	PAINT RELATED MATERIAL.

14.3 Transport hazard class(es)
ADR/RID/ADN, IMDG, IATA

Class	3 Flammable liquids.
Label	3

14.4 Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5 Environmental hazards

Marine pollutant	No

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code)	33
EMS Number	F-E, S-E
Stowage Category	A

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information

ADR/ RID/ ADN	Special provision 640D
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation"	UN1263 PAINT RELATED MATERIAL, 3, III

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 are listed.

Regulated poisons

None of the ingredients are listed.

Reportable explosives precursors

None of the ingredients are listed.

Reportable poisons

None of the ingredients are listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

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:
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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.