Safety Data Sheet

STARCOAT PMMA FILLER
Liquid Waterproofing

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

1.1 Product identifier
Trade name: STARCOAT PMMA FILLER
UFI: PE50-100Y-H005-HRSM

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 Sealing

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. 3	H226 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 Warning

Hazard-determining components of labelling:

Methyl methacrylate
2-Ethylhexyl acrylate
Ethoxylated p-toluidine

Hazard statements

H226	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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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

128-37-0 2,6-di-tert-butyl-p-kresol (Lijst II).

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	20 - <25%
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 - <20%

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 to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache

Dizziness

May cause respiratory irritation.

Symptoms/effects after eye contact : irritation of the eyes

Prolonged skin contact may cause redness and irritation.

4.3 Indication of any immediate medical attention and special treatment needed

After inhalation, even in the absence of symptoms, give inhaled corticosteroid (e.g. Ventolair).

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Sand.

Dry chemical powder, foam or carbon dioxide (CO2).

For safety reasons unsuitable extinguishing agents

Water with full jet

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

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)

Vapour is heavier than air and can form an explosive mixture with air.

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.

In case of seepage into the ground inform responsible authorities.

6.3 Methods and material for containment and cleaning up:

Do not flush with water or aqueous cleansing agents.

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

Due to polymerisation, cool containers when heated.
Keep away from heat,sparks and open flame.
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.
Prevent formation of aerosols.

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 against electrostatic charges.
Use only in explosion protected area.

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.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store at temperatures between 0˚C en 35˚C.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace	
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)
Ethoxylated p-toluidine	
Dermal DNEL	1.4 mg/kg bw/dag (worker)
Inhalative DNEL	9.8 mg/m³ (worker)
PNECs	
80-62-6 Methyl methacrylate	
PNEC sediment	1.47 mg/kg dw (ground) 5.74 mg/kg dw (fresh water)
PNEC	0.094 mg/l (saltwater) 0.94 mg/l (fresh water)
103-11-7 2-Ethylhexyl acrylate	
Soil	2.3 mg/l (soil bacteria) 1 mg/l (soil)
PNEC	0.0023 mg/kg (oral)
Water	0.126 mg/l (sediment) 0.002727 (fresh water)

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 eyes and skin.

Respiratory protection

Respiratory protection at high concentrations when limits are exceeded.
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.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter A.

Hand protection
Solvent resistant gloves

Material of gloves
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.7 mm
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
> 480 min.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Gloves made of the following materials are suitable for permanent contact
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

Physical state	Fluid
Colour	Different according to colouring
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	Flammable.
Lower and upper explosion limit	
Lower	Not determined.
Upper	Not determined.
Flash point	28°C.
Auto-ignition temperature	252°C
Decomposition temperature	Not determined.
pH	Mixture is non-soluble (in water).
Viscosity	
Kinematic viscosity	Not determined.
Dynamic at 20°C	4,500 mPas

Solubility

Water	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure	Not determined.

Density and/or relative density

Density at 20°C	1.34 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information No further information available.

Appearance

Form	Fluid.
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)	VOC limit value (cat A/i) 500 g/L 2010. Product contains 0 g/L.
Solids content	72.0 %

Change in condition

Softening point/ range	
Oxidising properties	Not determined.
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Void.
Flammable gases	Void.
Aerosols	Void.
Oxidising gases	Void.
Gases under pressure	Void.
Flammable liquids	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
Stable under normal conditions.

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:		
Inhalative	LC50/ 4h	156 mg/l (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)
Ethoxylated p-toluidine		
Oral	LD50	500 mg/kg (rat)

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		
CAS: 128-37-0	Butylated hydroxytoluene	List II

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
May be accumulated in organism

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
For information on endocrine disrupting properties see section 11.

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. Disposal should be in accordance with applicable regional, national and local laws and regulations. Cured product residues are not hazardous waste.

Uncleaned packaging:

Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Section 14: Transport information

14.1 UN number or ID number

ADR	Void
IMDG	Void
IATA	UN1263

14.2 UN proper shipping name

ADR	Exemption according to 2.2.3.1.5.
IMDG	Transport in accordance with 2.3.2.5 of the IMDG code.

14.3 Transport hazard class(es)

ADR, IMDG

Class — Void.

IATA

Class — 3 Flammable liquids.

Label — 3

14.4 Packing group

ADR	Void
IMDG	Void
IATA	III

14.5 Environmental hazards

Marine pollutant — No

14.6 Special precautions for user — Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

Transport/Additional information
ADR
Remarks Classification according to viscosity clause 2.2.3.1.4
UN "Model Regulation" UN1263, PAINT, 3, III

Section 15: Regulatory information

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

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.

Relevant phrases

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Contact
www.axter.co.uk

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR: Accord relatif au transport international des marchandises dangereuses par route (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)
PNEC: Predicted No-Effect Concentration (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
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
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

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