Safety Data Sheet

STARCOAT PMMA A PRIMER

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

1.1 Product identifier

Trade name: STARCOAT PMMA A PRIMER

UFI: 3A20-T05P-G00C-PFT9

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
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU19 Building and construction work

Application of the substance / the mixture Primer for liquid waterproofing of roofs.

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
Triethylene glycol dimethacrylate
triisodecyl phosphite

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.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

Additional information
Can polymerize after significant exceeding of storage time or storage temperature under heat development.
Take precautionary measures against static discharge.

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	≥50-≤75%
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21	Triethylene glycol dimethacrylate Skin Sens. 1B, H317	≥5-≤10%
CAS: 38668-48-3 EINECS: 254-075-1	1,1'-(p-tolylimino)dipropan-2-ol Acute Tox. 2, H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	≥0.2-≤1%
CAS: 25448-25-3 Reg.nr.: 01-2119964066	triisodecyl phosphite Skin Sens. 1B, H317	≥0.1-<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:
Take affected persons out of danger area and lay down.
Immediately remove any clothing soiled by the product.
When in doubt or if symptoms are observed, seek medical advice

After inhalation:
Remove victim to fresh air.
Seek medical attention if symptoms persist.

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

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

After swallowing:
After swallowing, rinse out mouth with plenty of water (only when conscious person) and seek medical attention immediately. Do not allow person to vomit. Let person rest.

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)
Vapour is heavier than air and can form an explosive mixture with air.
Can form explosive gas-air mixtures.

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.
Can form explosive gas-air mixtures.
Protect against electrostatic charges.

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.
Use the material only in places where open light, fire and other sources of ignition remain stay far away.
Use personal protective equipment. (See chapter 8). If ventilation at the location is not possible or insufficient, extra measures need to be taken to guarantee a good ventilation of the workplace. The product can be electrostatically charged: Always use earth-lines when transferring from container to container. Avoid formation of flammable or explosive concentrations of vapors in the air and higher exposure levels than allowed. Observe the safety and health regulations at work.

Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.
Use explosion-proof apparatus / fittings and spark-proof tools.
Highly volatile, flammable constituents are released during processing.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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:		
CAS: 80-62-6 methyl methacrylate		
WEL	Short-term value: 416 mg/m³, 100ppm Long-term value: 208 mg/m³, 50ppm	
DNELs		
80-62-6 methyl methacrylate		
Inhalative	DNEL (population) DNEL (worker)	74.3 mg/m³ (long term - systemic effects) 105 mg/m³ (long term - local effects) 210 mg/m³ (long term - systemic effects) 210 mg/m³ (long term - local effects)
109-16-0 triethylene glycoldimethacrylate		
Inhalative	DNEL (worker) DNEL (worker)	48.5 mg/m³ (long term - systemic effects) 13.9 mg/kg/bw/d (long term - systemic effects)

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 (salt water) 0.94 mg/l (fresh water)
109-16-0 triethyleneglycoldimethacrylate	
PNEC	0.016 mg/l (sweet water) 0.0016 mg/l (seawater) 0.185 mg/kg dw (sediment sweet water) 0.0185 mg/kg dw (sediment seawater) 0.027 mg/kg dw (soil)

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

Hand protection

Protective gloves

Material of gloves

Butyl rubber, BR
Recommended thickness of the material: ≥ 0.33mm
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

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

For permanent contact gloves made of the following material are suitable

Butyl rubber, BR

Eye protection

Tightly sealed goggles.

Body protection

Protective work clothing
Boots
Apron

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance

Colour	Yellow tint
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	Not applicable.
Lower and upper explosion limit	
Lower	2.1 Vol % (CAS: 80-62-6 methyl methacrylate)
Upper	12.5 Vol % (CAS: 80-62-6 methyl methacrylate)
Flash point	10°C (CAS: 80-62-6 methyl methacrylate)
Auto-ignition temperature	430°C
Decomposition temperature	Not determined.
pH at 20°C	7.1
Viscosity	
Kinematic viscosity	Not determined.
Dynamic at 20°C	100 mPas
Solubility	
Water	Slightly soluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20°C:	40 hPa
Density and/or relative density	
Density at 20°C	1 g/cm^3
Relative density	Not determined.
Vapour density	>1 (20^{0}C)

9.2 Other information — No further relevant information available.

Appearance

Form	Fluid.

Auto-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.
Oxidants.

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	>2,500-10,000 mg/kg (rat)
CAS: 80-62-6 methyl methacrylate		
Oral	LD50	7,872 mg/kg (rat)
Dermal	LD50	>5,000 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	LD50	25 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation
Irritant

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitization
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
May cause respiratory irritation.

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	
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)

12.2 Persistence and degradability
Biodegradable.

Other information
The product is easily biodegradable.

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
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.

Uncleaned packaging:

Recommendation:
Dispose of packaging according to regulations on the disposal of packagings.
Disposal must be made according to official regulations.

Section 14: Transport information

14.1 UN number or ID number

ADR	UN1866
IMDG	UN1866

14.2 UN proper shipping name

ADR	UN1866, Resin solution, II,(D/E) Special provisions 640D
IMDG	UN1866, Resin solution, 3, II, (10°C c.c.)
IATA	RESIN SOLUTION.

14.3 Transport hazard class(es)
ADR, IMDG, IATA

Class	3 Flammable liquids.
Label	3

14.4 Packing group

ADR	II
IMDG	II
IATA	II

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-D
Stowage Category	B

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

Transport/Additional information
ADR

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2

Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation"	UN1866 RESIN SOLUTION, 3, II

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.

Relevant phrases

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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)
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
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye 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

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