

# Safety Data Sheet

according to 1907/2006/EC, Article 31

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## STARCOAT PMMA M PRIMER

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

#### 1.1 Product identifier

**Trade name:** STARCOAT PMMA M PRIMER

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against See Section 16

**Application of the substance / the mixture** Priming

#### 1.3 Details of the supplier of the safety data sheet

**Supplier:**

Axter Ltd  
West Road  
Ransomes Europark  
Ipswich IP3 9SX

**t** +44 1473 724056 (8.00 am to 5.30 pm, Monday to Friday - not 24 hours)

**e** info@axterltd.co.uk; www.axter.co.uk

**Emergency telephone number:**

**t** +44 (0) 1473 724056 (8.00 am to 5.30 pm, Monday to Friday - not 24 hours). In the event of a medical enquiry relating to this product, please contact your doctor or local hospital accident and emergency department.

## \*Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008



GHS02 flame



GHS07

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit 2. H319 Causes serious eye irritation

STOT SE3 H336 May cause drowsiness or dizziness

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

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

#### Hazard pictograms



GHS02



GHS07

**Signal word** Danger **Hazard determining components of labelling:** 2-methoxy-1-methylethyl acetate

#### Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Precautionary statements

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.
P240	Ground/bond container and receiving equipment.
P280	Wear protective gloves/ eye protection.
P312	Call a Poison Centre / doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+P235	Store in a well-ventilated place. Keep cool.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

**vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

## Section 3: Composition/information on ingredients

### 3.2 Mixture Description: Mixture of substances listed below with non hazardous additions.

#### Dangerous components:

CAS: 108-65-6 EINECS: 205-500-4	2-methoxy-1-methylethyl acetate	Flam. Liq. 3, H226; STOT SE 3, H336	10-<25%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate	Flam. Liq. 2, H225; Eye Irrit. H319 STOT SE 3, H336	10-<25%

**Additional information:** For the wording of the listed risk 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:**

In case of unconsciousness place patient stably in side position for transportation.  
Take affected persons into fresh air and keep quiet.  
Seek medical treatment.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

**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  
Skin sensitization; Irritant to skin, eyes, respiratory system

## \*Section 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder, foam.

**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 (NO<sub>x</sub>)

### 5.3 Advice for firefighters

**Protective equipment:**

Wear fully protective suit.  
Wear self-contained respiratory protective device.

**Additional information**

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

## \*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.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.

#### **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).

#### **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**

Cool down container when heated. Cool containers exposed to heat with water. Emergency cooling must be provided in the event of an ambient heat. Keep container tightly closed to prevent heat build up (pressure increase). Avoid heat.

Do not refill residue into storage receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
at least 7-fold air changes

#### **Information about fire - and explosion protection:**

Highly volatile, flammable constituents are released during processing.  
Keep ignition sources away - Do not smoke.  
Fumes can combine with air to form an explosive mixture.  
Only explosion-proof equipment.  
Protect against electrostatic charges.  
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:**

Store in cool, dry conditions in well sealed receptacles.  
Storage in a collecting room is required.  
Store under lock and key and with access restricted to technical experts or their assistants only.  
Max storage temperature 30°C.  
Keep container tightly sealed.  
Protect from heat and direct sunlight.

#### **7.3 Specific end use(s) Building coating or sealing.**

**\*Section 8: Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

**8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:		
108-65-6 2-methoxy-1-methylethyl acetate (10-25%)		
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk	
141-78-6 ethyl acetate (10-25%)		
WEL	Short-term value: 1468 mg/m <sup>3</sup> Long-term value: 734 mg/m <sup>3</sup>	
112945-52-5 SYNTHETIC AMORPHOUS SILICA ( ≤ 25%)		
TWA	Short-term value: 6 mg/m <sup>3</sup> Long-term value: 2.4 mg/m <sup>3</sup>	
DNELs		
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	DNEL (population)	1.67 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	153.5 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	33 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (worker)	275 mg/m <sup>3</sup> (Long-term - systemic effects)
141-78-6 ethyl acetate		
Oral	DNEL (population)	4.5 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL	63 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	37 mg/m <sup>3</sup> (Long-term - systemic effects)
Inhalative	DNEL (population)	734 mg/m <sup>3</sup> (Acute - local effects)
		734 mg/m <sup>3</sup> (Acute - systemic effects)
		367 mg/m <sup>3</sup> (Long-term - systemic effects)
		367 mg/m <sup>3</sup> (Long-term - local effects)
		1468 mg/m <sup>3</sup> (Acute - local effects)
		1468 mg/m <sup>3</sup> (Acute - systemic effects)
		734 mg/m <sup>3</sup> (Long-term - systemic effects)
	734 mg/m <sup>3</sup> (Long-term - local effects)	

PNECs	
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
PNEC	0.0635 mg/l (seawater) 0.635 mg/l (freshwater)
<b>141-78-6 ethyl acetate</b>	
PNEC	0.22 mg/kg (ground) 0.34 mg/kg (sediment) 0.26 mg/l (water)

**Additional information:** The lists valid at the time were used as the basis.

## 8.2 Exposure controls

### Personal protective equipment:

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

**Respiratory protection:** Ensure good ventilation.

In interiors and where inhalation exceeds limits: Filter type A1 using an air recycling independent breathing apparatus at high concentrations, A2 at an intensive or longer outline.

### Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Check that protective gloves are in good condition prior to each use.

Glove material has to be impermeable and resistant to the product/substance/preparation. Selection of the glove material must take account of penetration times, rates of diffusion and degradation.

Due to lack of tests, no recommendation regarding the glove material can be given for the product/ the preparation/ the chemical mixture.

### Material of gloves

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.

Protective gloves must comply with EN 374. Suitable material: nitrile.

### Penetration time of glove material

Our recommendation is mainly for a one-time use of the gloves as short-term protection against liquid splashes. For other applications, you should contact a glove manufacturer. The exact break through time must be found out from the manufacturer of the protective gloves and must be observed.

**For permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Butyl rubber, BR

**For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR

**Not suitable are gloves made of the following material:** Leather

### Eye protection:



Tightly sealed goggles

EN-Standard: EN 166

**Body protection:**

Protective work clothing

**\*Section 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Fruit-like
<b>Odour threshold:</b>	Not determined
<b>pH-value:</b>	Not determined

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	77 °C (Ethylacetat)
<b>Flash point:</b>	5 °C (EN ISO 3680)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	315 °C (1-Methoxy-2-propylacetat)
<b>Self-igniting:</b>	Product is not self igniting.
<b>Explosive properties:</b>	Not determined.

**Explosion limits:**

<b>Lower:</b>	2.1 Vol % (Ethylacetat)
<b>Upper:</b>	11.5 Vol % (Etylacetat)

**Vapour pressure at 20 °C:** 4.9 hPa (Ethylacetat)

**Density at 20 °C:** 1.51 g/cm<sup>3</sup> (EN ISO 2811-1)

**Evaporation rate** Not determined.

**Solubility in / Miscibility with water:** Fully miscible.

**Partition coefficient**

**(n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic at 20 °C:** 2000 mPas (EN ISO 2555)

**Solvent content:**

**Organic solvents:** 36.4 %

**VOC (EC)** 36.39 %

**Solids content:** 64.0 %

**9.2 Other information** No further relevant information available.

**\*Section 10: Stability and reactivity****10.1 Reactivity** see Section 10.2**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions**

Exothermic reaction.

Reacts with peroxides and other radical forming substances.

A hazardous polymerization may occur after the exhaustion of the inhibitor.

**10.4 Conditions to avoid:** Heat and direct sunlight.**10.5 Incompatible materials:** Reaction with peroxides and other free-radical generators.**10.6 Hazardous decomposition products:**

No dangerous decomposition when product used according to specifications.

**Additional information:**

Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan at the workplace where the product is present.

**\*Section 11: Toxicological information****11.1 Information on toxicological effects** There were no toxicological findings to the mixture.**Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Inhalative	LC50/4h	91.5 mg/l (rat)
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**108-65-6 2-methoxy-1-methylethyl acetate**

Oral	LD50	8500 mg/kg (rat)
Dermal	LC50	5.000 mg/kg (rat)
Inhalative	LC50/4h	35.7 mg/l (rat)

**141-78-6 ethyl acetate**

Oral	LD50	4934 mg/kg (rabbit) (OECD 401)
Dermal	LC50	>18000 mg/kg (rat)
	LD50	> 18000 mg/kg (rabbit)
Inhalative	LC50/4h	56 mg/l (rat)

**Primary irritant effect:****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Causes serious eye irritation.**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.**Other information (about experimental toxicology):**

Due to the high vapour pressure a harmful concentration in the air is quickly reached. At high concentrations a narcotic effect can occur.



**Subacute to chronic toxicity:** not tested

**Repeated dose toxicity** no data available

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** not tested

**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.

## \*Section 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:	
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
EC50/48h	> 500 mg/l (daphnia magna)
LC50/96h	100 - 180 mg/l (Rainbow trout)
<b>141-78-6 ethyl acetate</b>	
EC50/24h	3090 mg/l (daphnia magna) (DIN 38412, Part 11)
EC50/48h	164 mg/l (daphnia magna)
	3300 mg/l (scenedesmus subspicatus)
LC50/96h	230 mg/l (fish)
	455 mg/l (pimephales promelas)
NOEC/21d	2.4 mg/l (daphnia magna)
NOEC/72h	>100 mg/l (Alge (Desmodesmus subspicatus)) (OECD 201)

**12.2 Persistence and degradability** Easily biodegradable

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

#### **Additional ecological information:**

##### **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

**vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

**12.6 Other adverse effects** No further relevant information available.

## \*Section 13: Disposal considerations

### 13.1 Waste treatment methods

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be removed in compliance with local regulations.

#### Recommendation

Uncured product residues are special waste.  
Cured product residues are not hazardous waste.



Must not be disposed together with household rubbish. Do not allow product to reach sewage system.

#### Waste disposal key:

The following Waste Codes of the European Waste Catalogue (EWC), are considered a recommendation. The disposal must be coordinated with the local waste disposal company.

Liquid product:

080111 \* paint and varnish containing organic solvents or other dangerous substances

080199 waste nec

Cured product residues:

080112 paint and varnish wastes other than those mentioned in 080111

080410 adhesive waste adhesives and sealants other than those mentioned in 080409

**European waste catalogue** 080111 \* (recommended)


#### Uncleaned packaging:

##### Recommendation:

This material and its container must be disposed of as hazardous waste. Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## \*Section 14: Transport information

14.1	<b>UN-Number</b> <b>ADR, IMDG, IATA</b>	UN1263
14.2	<b>UN proper shipping name</b> <b>ADR</b> <b>IMDG, IATA</b>	1263 PAINT PAINT
14.3	<b>Transport hazard class(es)</b> <b>ADR, IMDG, IATA</b>	
		
	<b>Class</b> <b>Label</b>	3 Flammable liquids. 3
14.4	<b>Packing group</b> <b>ADR, IMDG, IATA</b>	III

<b>14.5</b>	<b>Environmental hazards:</b>	
	Marine pollutant:	No
<b>14.6</b>	<b>Special precautions for user</b>	Warning: Flammable liquids.
	<b>Danger code (Kemler):</b>	---
	<b>EMS Number:</b>	F-E,S-E
	Stowage Category	A
<b>14.7</b>	<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
	<b>Transport/Additional information:</b>	
	<b>ADR</b>	
	<b>Limited quantities (LQ)</b>	5L
	<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
	<b>Transport category</b>	3
	<b>Tunnel restriction code</b>	D/E
	<b>Remarks:</b>	Classification according to viscosity clause (2.2.3.1.4)
	<b>IMDG</b>	
	<b>Limited quantities (LQ)</b>	5L
	<b>Excepted quantities (EQ) Code:</b>	E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
	<b>Remarks:</b>	Classification according to viscosity clause (2.3.2.3)
	<b>UN "Model Regulation":</b>	UN 1263 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 5000t

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

REGULATION (EC) No. 1907/2006 ANNEX XVII Conditions of restriction 3

#### National regulations: Information about limitation of use:

Employment restrictions under the Maternity Protection Directive (94/33/EC).

Employment restrictions for maternity Directive (92/85/EEC) for expectant and nursing mothers.

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

## \*Section 16: Other information

These figures relate to the product as delivered.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administratoion, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

### Relevant phrases

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H319 Causes serious eye irritation.

### Training hints

Teaching on hazards and precautions must take place before the start of employment and at last annually thereafter.

### 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)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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 (REACH)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Eye Irrit. 2: Serious eye damage / eye irritation - Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

### Sources:

[www.gestis.de](http://www.gestis.de)

[www.echa.eu](http://www.echa.eu)

[logkow.cisti.nrc.ca](http://logkow.cisti.nrc.ca)

**\* Data compared to the previous version altered.**

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