

Safety Data Sheet

According to 1907/2006/EC Article 31

STARCOAT PMMA G PRIMER

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

1.1 Product identifier

Trade name: STARCOAT PMMA G 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

Manufacturer/Supplier

AXTER LTD, West Road, Ransomes Europark, Ipswich IP3 9SX UK

Tel: +44 (0) 1473 724056, 8.00 am to 5.30 pm, Monday to Friday

Email: info@axterltd.co.uk

1.4 Emergency telephone

+ 44 1473 724056 (NOT 24HRS - 8am - 5.30pm, Monday to Friday)

In the event of a medical enquiry involving 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

Flam. Liq. 2

H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit.2
STOT SE 3

H319 Causes serious eye irritation
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:

Ethyl 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, hot surfaces, sparks, open flames and other ignition surfaces. - No smoking.

P261

Avoid breathing in vapours.

P280

Wear protective gloves/ eye protection.

P303+P361+P353

IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.

P312

Call a doctor if you feel unwell.

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

Dangerous components:		
CAS: 141-78-6 EINECS: 205-500-4 Reg no. 01-2119475103-46	Ethyl acetate Flam. Liq. 2, H225; Eye Irrit.2, H319; STOT SE 3, H336;	50-100%
CAS: 108-65-6 EINECS: 203-603-9 Reg.no.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq.3, H226; 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 and lie them 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 them 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 and respiratory system

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, 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_x)

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.

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 7.1 Precautions for safe handling

Do not put unused product back into the original container.

Ensure good ventilation and evacuation of fumes in the workplace.

Prevent formation of aerosols.

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 use 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 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, 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 in the workplace:****141-78-6 ethyl acetate (50-100%)**

WEL	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
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108-65-6 2 methoxy-1-methylethyl acetate (10-25%)

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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112945-52-5 Synthetic amorphous pyrogenic silica (2.5-10%)

TWA	Short-term value: 6mg/m ³
	Long-term value: 2.4 mg/m ³

DNELs		
141-78-6 ethyl acetate		
Oral	DNEL (population)	4.5mg/kg bw/day (Long-term – systemic effects)
Dermal	DNEL	63 mg/kg bw/day (Long-term – systemic effects)
	DNEL (population)	37 mg/m ³ (Long-term – systemic effects)
Inhalative	DNEL (worker)	1,468 mg/m ³ (Acute – local effects)
		1,468 mg/m ³ (Acute – systemic effects)
		734 mg/m ³ (Long-term – systemic effects)
		734 mg/m ³ (Long-term – local effects)
		734 mg/m ³ (Acute – local effects)
	DNEL (population)	734 mg/m ³ (Acute – systemic effects)
		367 mg/m ³ (Long-term – systemic effects)
		367 mg/m ³ (Long-term – local effects)
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 (worker)	275 mg/m ³ (Long-term systemic effects)
	DNEL (population)	33 mg/m ³ (Long-term system effects)
PNECs		
141-78-6 ethyl acetate		
PNEC	0.22 mg/kg (ground)	
	0.34 mg/kg (sediment)	
PNEC	0.26 mg/l (water)	
108-65-6 2 methoxy-1-methylethyl acetate		
PNEC	0.0635 mg/l (seawater)	
	0.635 mg/l (freshwater)	

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

8.2 Exposure controls

Personal protective equipment:



General protective and hygienic measures

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

Respiratory protection

Ensure good ventilation.
 Inside a building use respiratory filter device. In case of intensive or longer exposure use A1 air recycling, self-contained respiratory protective device and at higher concentrations A2.

Protection of hands

Protective gloves

Glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Select glove material on consideration of the penetration times, rates of diffusion and degradation.

Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.

Check protective gloves prior to each use for their proper condition. Due to missing tests no recommendation to 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. As the product is a preparation of several substances the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Protective gloves according to EN 374.

Suitable material: nitrile.

Penetration time of glove material

Our recommendation is mainly for a once-only use as a 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 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:****Form:**

Fluid

Colour:

Colourless

Odour:

Weak, characteristic

Odour threshold:

Not determined

pH-value:

Not determined

Change in condition	
Melting point/Melting range:	Undetermined
Initial boiling point/boiling range:	Undetermined
Flash point:	-4 °C (Ethylacetat)
Flammability (solid, gas):	Not applicable
Igniting temperature:	265 °C
Auto-igniting temperature:	Product is not self-igniting.
Explosive properties:	Not determined
Explosion limits:	
Lower:	2.1 Vol % (Ethylacetat)
Upper:	11.5 Vol % (Ethylacetat)
Vapour pressure:	Not determined
Density at 20 °C:	0.98 g/cm ³ (EN ISO 2811-1)
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic at 20°C	214 mPas (EN ISO 2555)
Solvent content:	
Organic solvents:	71.9%
VOC (EC)	71.94%
Solids content:	28.0 %

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 specification.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid: Avoid heat, avoid direct sunlight.

10.5 Incompatible materials:

No further information available.

10.6 Hazardous decomposition products:

No dangerous composition products used according to specification.

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	>45.6 mg/l (rat)
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141-78-6 ethyl acetate

Oral	LD50	4934 mg/kg (rat) (OECD 401)
Dermal	LD50	>18,000 mg/kg (rabbit)
	LC50	>18,000 mg/kg (rat)
Inhalative	LC50/4h	56 mg/l (rat)

108-65-6 2 methoxy-1-methylethyl acetate

Oral	LD50	8,500 mg/kg (rat)
Dermal	LC50	5,000 mg/kg (rat)
Inhalative	LC50/4h	35.7 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

May cause drowsiness or dizziness.

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: 141-78-6 ethyl acetate	
EC50/24h	3090 mg/l (daphnia magna) (DIN 38412 Part 11)
EC50/48h	164 mg/l (daphnia magna)
LC50/96h	3,300 mg/l (scenedesmus subspicatus)
	230 mg/l (fish)
	455 mg/l (pimephales promelas)
NOEC/72h	>100 gm/l (Alge (Desmodesmus subspicatus)) (OECD 201)
NOEC/21d	2.4 mg/l (daphnia magna)
108-65-6 2 methoxy-1-methylethyl acetate	
EC50/48h	>500 mg/l (daphnia magna)
LC50/96h	>100-180 mg/l (Rainbow trout)

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.

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 (EW C). 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 of 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 recommended. The disposal must be coordinated with a local waste disposal company.

Liquid product:

080409 * adhesives and sealants containing organic solvents or other dangerous substances.

080410 adhesive and sealants containing wastes other than those mentioned in *080409

Cured product

170 203 plastic



European waste catalogue 080111 * (recommended)

Unclean packaging:

Recommendation:

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

Section 14: Transport information

14.1	UN-Number	UN1263
	ADR, IMDG, IATA	
14.2	UN proper shipping name	1263 PAINT, special provision 640D
	ADR	PAINT
	IMDG, IATA	
14.3	Transport hazard class(es)	
	ADR	
		
	Class	3 (F1) Flammable liquids.
	Label	3
	IMDG, IATA	
		
	Class	3 Flammable liquids.
	Label	3
14.4	Packing group	
	ADR, IMDG, IATA	II
14.5	Environmental hazards:	
	Marine pollutant:	No
14.6	Special precautions for user	Warning: Flammable liquids.
	Danger code (Kemler):	33
	EMS Number:	F-E,S-E
	Stowage Category	B
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	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":	UN 1263 PAINT, SPECIAL PROVISION 640D, 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 lower-tier requirements 50,000 t

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 (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Training hints

Teaching about hazards and precautions when using product (Technical Rule 555).

Instruction must take place before the start of employment and at least 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

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)

PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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 2

Sources

www.gestis.de

www.echa.eu

logkow.cisti.nrc.ca

The information provided in this document is accurate to the best of our knowledge. The document does not constitute a specification and Axter takes no responsibility for the suitability of the product in a particular use. It is the user's responsibility to ensure that the product is suitable for the intended application and use and to take the necessary precautions to ensure that during handling, storage and installation of the product, all regulations to guarantee safety of people and the environment are observed. For further information or technical design assistance, contact Axter Ltd.