

Safety Data Sheet

According to 1907/2006/EC Article 31

STARCOAT PMMA LV PRIMER

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

1.1 Product identifier

Trade name: STARCOAT PMMA LV 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 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

Skin Irrit.2

Skin Sens.1

STOT SE 3

H315 Causes skin irritation

H317 May cause an allergic skin reaction

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 CLP regulation.

Hazard pictograms



GHS02



GHS07

Signal word Danger

Hazard-determining components of labelling:

Methyl methacrylate

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 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 POISON CENTRE/ 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 nonhazardous additions.

| Dangerous components: | | |
|--|--|---------|
| CAS: 80-62-6 EINECS: 201-297-1 Reg no. 01-2119452498-28-0000 01-2119452498-28-0025 01-2119452498-28-0028 | Methyl methacrylate Flam. Liq. 2, H225; Skin Irrit.2, H315; Skin Sens.1, H317; STOT SE 3, H335 | 50-100% |

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:**

Observe the usual precautions when handling chemicals.

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air or oxygen and it is recommended that a doctor is consulted.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

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**

Skin sensitization

Irritation to skin, eyes and respiratory system

4.3 Indication of any immediate medical attention and special treatment needed

After inhalation, even in the absence of signs of illness, give Corticoid inhalatives (e.g. Ventolair).

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.

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.

Vapours are heavier than air. Note that vapour can travel and cause inflammation some distance away.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

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 Precautions for safe handling

Ensure good ventilation of fumes in the workplace; at least 7-fold air changes per hour.

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.

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.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.**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: | | |
|---|--|--|
| 80-62-6- methyl methacrylate (50-100%) | | |
| 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 (worker) | 210 mg/m³ (Long-term - local effects) 210 mg/m³ (Long-term – systemic effects) Long-term |
| | DNEL (population) | 74.3 mg/ m³ (Long-term - systemic effects) 105 mg/m³ (Long-term - local effects) |
| PNECs | | |
| 80-62-6 methyl methacrylate | | |
| PNEC (sediment) | 1.47 mg/kg dw (ground) 5.74 mg/kg dw (freshwater) | |
| PNEC | 0.094 mg/l (seawater) 0.94 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

Avoid contact with the 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 food.
Avoid contact with the skin.
Do not inhale gases/fumes/aerosols.

Respiratory protection

Ensure good ventilation.
In case of brief exposure or low pollution or inside a building use respiratory filter device filter type A1. In case of intensive or longer exposure use air recycling, self-contained respiratory protective device A2. A protective breathing hood can be used.

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 lack of test data 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: | Different according to colouring |
| Odour: | After MMA |
| Odour threshold: | Not determined |
| pH-value: | Not determined |

Change in condition

| | |
|-------------------------------------|-------------------------|
| Melting point/Melting range: | Undetermined |
| Boiling point/Boiling range: | 101 °C (MMA) |
| Flash point: | 17 °C (DIN EN ISO 3680) |

| | |
|------------------------------------|----------------|
| Decomposition temperatures: | Not determined |
|------------------------------------|----------------|

| | |
|------------------------------|--------------|
| Igniting temperature: | 430 °C (MMA) |
|------------------------------|--------------|

| | |
|-----------------------------------|------------------------------|
| Auto-igniting temperature: | Product is not self-igniting |
|-----------------------------------|------------------------------|

| | |
|------------------------------|---|
| Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
|------------------------------|---|

Explosion limits:

| | |
|---------------|------------------|
| Lower: | 1.7 Vol % (MMA) |
| Upper: | 12.5 Vol % (MMA) |

| | |
|----------------------------------|----------------|
| Vapour pressure at 20 °C: | 38.7 hPa (MMA) |
|----------------------------------|----------------|

| | |
|--------------------------|---|
| Density at 20 °C: | 0.98-1.02 g/cm ³ (EN ISO 2811-1) |
|--------------------------|---|

| | |
|-------------------------|----------------|
| Relative density | Not determined |
|-------------------------|----------------|

| | |
|-----------------------|----------------|
| Vapour density | Not determined |
|-----------------------|----------------|

| | |
|-------------------------|----------------|
| Evaporation rate | Not determined |
|-------------------------|----------------|

| | |
|--|----------------------------------|
| Solubility in / Miscibility with water: | Not miscible or difficult to mix |
|--|----------------------------------|

Partition coefficient

| | |
|---------------------------|---------------------|
| (n-octanol/water): | log Pow: 1.38 (MMA) |
|---------------------------|---------------------|

Viscosity:

| | |
|----------------------------|-------------------|
| Dynamic | Not determined |
| Kinematic at 20 °C: | 15-25s (ISO 6 mm) |

Solvent content:

| | |
|----------|------|
| VOC (EC) | 0.0% |
|----------|------|

| | |
|------------------------|--------|
| Solids content: | 30-37% |
|------------------------|--------|

| | |
|------------------------------|--|
| 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.

10.4 Conditions to avoid: No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:**

Carbon monoxide.

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:**80-62-6 methyl methacrylate**

| | | |
|------------|---------------|---|
| Oral | LD50 NOAEL | >5000 mg/kg (rat) (OECD 401) 2000 ppm (rat) n Drinking water, 6-2000 ppm Findings: no toxic effects |
| Dermal | LC50 NOAEL | >5000 mg/kg (rabbit) 25 ppm (rat) 24 – 400 ppm Findings: damage to mucous membranes in the nose at 400 ppm |
| Inhalative | LC50/4h | 29.8 mg/l (rat) |

Primary irritant effect:**Skin corrosion/irritation**

Causes skin irritation.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

May cause an allergic skin reaction.

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.

Toxicokinetics, metabolism and distribution

The drug is metabolized rapidly (MMA).

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 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. |

Section 12: Ecological information

12.1 Toxicity

| 80-62-6 methyl methacrylate | |
|-----------------------------|--|
| EC3/16h | 100 mg/l (Pseudomonas putida) (Cell proliferation inhibition test, Bringmann-Kühn) |
| Aquatic toxicity | |
| 80-62-6 methyl methacrylate | |
| EC50/48h | 69 mg/l (daphnia magna) (OECD 202) |
| LC50/96h | >79 mg/l (Rainbow trout) (OECD 203) |
| ErC50/72h | >110 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| NOEC/72h | >110 mg/l (Selenastrum capricornutum) (OECD 201) |
| EC50/72h | >110 mg/l (Selenastrum capricornutum) (OECD 201) |
| NOEC | 9.4 mg/l (Danio rerio) (OECD 210) |
| | Fish early life stage test, 35 days |
| | 37 mg/l (daphnia magna) (OECD 211) |
| | 21 days |

12.2 Persistence and degradability No further relevant information available.

Other information: the product is easily biodegradable.

12.3 Bioaccumulative potential. No further relevant information available

12.4 Mobility in soil

MMA: A binding to the solid phase of soil, sediment and sewage sludge is not expected. From the water surface the substance is slowly evaporated into the atmosphere. Where the substance gets into the environment it should remain in the compartment into which it has leaked.

Additional ecological information:

BOD5-value: 0.14 g/g (MMA)

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.

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:

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.

Section 14: Transport information

| | | |
|-------------|---|---------------------------|
| 14.1 | UN-Number | |
| | ADR, IMDG, IATA | UN1263 |
| 14.2 | UN proper shipping name | |
| | ADR | 1263 PAINT |
| | IMDG, IATA | PAINT |
| 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 | III |
| 14.5 | Environmental hazards: Marine pollutant: | No |
| 14.6 | Special precautions for user Danger code (Kemler): EMS Number: Stowage Category | Warning: Flammable liquids. F-E,S-E A |
| 14.7 | Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code Remarks: IMDG Limited quantities (LQ) Excepted quantities (EQ) Remarks: UN "Model Regulation": | Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E Classification according to viscosity clause (2.2.3.1.4) >450 litres Packing group II 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Classification according to viscosity clause (2.3.2.2) >450 litres packing group II 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 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

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

Training hints

Instruction about hazards and precautions must be given before use 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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skins Sens 1: Skin sensitization – Category 1

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

Aquatic Chronic 2: Hazardous to the aquatic environment – long-term aquatic hazard – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment – long-term aquatic hazard – Category 3

Sources:

www.gestis.de

www.echa.eu

logkow.cisti.nrc.ca

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