Safety Data Sheet

According to UK REACH

STARCOAT PMMA CLEANER

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

1.1 Product identifier

Trade name: STARCOAT HYBRID CLEANER

CAS Number:
108-65-6
EC number:
203-603-9
Index number:
607-195-00-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Section of use
SU19 Building and construction work
Application of the substance / the mixture Solvents

1.3 Details of the supplier of the safety data sheet

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	H226 Highly flammable liquid and vapour.
STOT SE 3	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 Warning

Hazard-determining components of labelling:
2-methoxy-1-methylethyl acetate

Hazard statements

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

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.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/ doctor if you feel unwell.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3.1 Substance

CAS No. Description

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

Identification number(s)

EC number: 203-603-9

Index number: 607-195-00-7

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.

After inhalation:

Rinse nose and mouth with water.

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

After skin contact:

Immediately remove any clothing soiled by the product.

Wash with soap and water, rinse well.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse immediately with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eye wide open during flushing.

Seek medical attention if symptoms persist.

After swallowing:

Rince mouth.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness

Drowsiness

Symptoms/ effects after eye contact: irritation of the eyes.

Prolonged exposure contact may cause redness and irritation.

4.3 Indication of any immediate medical attention/special treatment needed:

Keep patient warm and quiet. Treat the symptoms.

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

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

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

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

Use respiratory protective device against the effects of fumes/ dust/ aerosol.

Keep away from ignition sources.

Can form explosive gas-air mixtures.

Ensure adequate ventilation, especially in confined spaces. Do not breathe gas/ smoke/ vapour/ spray.

Keep people at a distance and stay on the windward side.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product 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

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 interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep away from heat and direct sunlight.

Use solvent-proof equipment.

Information about fire - and explosion protection:

Handle only outside or in explosion protected rooms.

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

Use explosion-proof apparatus/ fittings and spark-proof tools.

Keep ignition sources away - Do not smoke.

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 cool, dry place in tightly closed receptacles.
Store in a cool location.
Information about storage in one common storage facility:
Not required.
Further information about storage conditions:
Store receptacle in fume cupboard.
Store only outside or in explosion proof rooms.
Keep container tightly sealed.

Section 8: Exposure controls/personal protection

Additional information about design of technical facilities: Ensure adequate ventilation at the workplace.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:		
CAS: 108-65-6 2-methoxy-1-methylethylacetate		
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk	
DNELs		
108-65-6 2-methoxy-1-methylethylacetate		
Oral DNEL Dermal DNEL DNEL	population workers worker: inhalative worker	long term system effects : 1.67 mg/kg bw/day long term system effects : 153.5 mg/kg bw/day long term system effects : 275 mg/m³
CAS: 108-65-6 2-methoxy-1-methylethylacetate		
Dermal Inhalative	worker: worker	796 mg/kg bw/day 275 mg/m³
PNECs		
108-65-6 2-methoxy-1-methylethylacetate		
PNEC	salt water sweet water sweet water salt water	0.0635 mg/l 0.635 mg/l 3.29 mg/kg 0.329 mg/kg

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

8.2 Exposure controls

Appropriate engineering controls No further data; see item 7.
Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.

Respiratory protection

Filter A.

Protection of hands

Solvent resistant gloves.

Material of gloves

Recommended thickness of the material: ³ 0.35 mm.

PVA gloves.

Synthetic rubber gloves.

Butyl rubber, BR.

Chloroprene rubber, CR.

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.

Penetration time of glove material

Value for the permeation: Level ≤ 240 min

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

Eye/face protection

Tightly sealed goggles.

Body protection

Protective work clothing.

Environmental exposure controls

Prevent seepage into sewage system, workpits and cellars.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	Ether-like
Odour threshold	Not determined.
Melting point/freezing point	Undetermined.
Boiling point or initial boiling point and boiling range	145.8 °C (CAS: 108-65-6 2-methoxy-1-methylethylacetate)
Flammability	Flammable.
Lower and upper explosion limit	
Lower	1.5 Vol % (CAS: 108-65-6 2-methoxy-1-methylethylacetate)
Upper	7 Vol % (CAS: 108-65-6 2-methoxy-1-methylethylacetate)
Flash point	44°C (CAS: 108-65-6 2-methoxy-1-methylethylacetate)
Auto-Ignition temperature	333 °C (CAS: 108-65-6 2-methoxy-1-methylethylacetate)
Decomposition temperature	Not determined.

	pH	4
	Viscosity	
	Kinematic viscosity	Not determined.
	Dynamic at 20°C	1.1mPas
	Solubility	
	Water at 20°C	220 g/l Insoluble.
	Partition coefficient n-octanol/water (log value)	log Pow: 1.2
	Vapour pressure at 20°C	3.37 hPa (CAS: 108-65-6 2-methoxy-1-methylethylacetate)
	Density and/or relative density	
	Density at 20°C	0.97 g/cm³
	Relative density	Not determined.
	Vapour density	Not determined.
9.2	**Other information**	No further information available.
	Appearance	
	Form	Fluid.
	Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
	Solvent content	
	VOC (EC)	970.0 g/l
	Solids content	0.0%
	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	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.
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**
No dangerous reactions known.

10.4 **Conditions to avoid**
Keep away from heat and direct sunlight.

10.5 **Incompatible materials**
Oxidants
Acids

10.6 **Hazardous decomposition products:**
Hazardous decompositions products may be released during prolonged heating like smokes, carbon monoxide and dioxides.

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:		
CAS: 108-65-6 2-methoxy-1-methylethylacetate		
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	8,532 mg/kg (rat) 5,000 mg/kg (kon) 24 mg/l (rat)

Primary irritant effect:

Serious eye damage/irritation
Splashes in the eyes may cause irritation and reversible local damage.

STOT-single exposure
May cause drowsiness or dizziness.

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity		
CAS: 108-65-6 2-methoxy-1-methylethylacetate		
Inhalative	LC50 EC50	161 mg/l /96 h (fish) > 500 mg/l /48 h (Daphnia magna)

12.2 Persistence and degradability

Moderately /partly biodegradable

12.3 Bioaccumulative potential

Does not accumulate in organisms

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 Other adverse effects

Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Assessment by list): 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
Prevent seepage into sewage system, workpits and cellars.
Disposal should be in accordance with applicable regional, national and local laws and regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging
Recommendation
Disposal must be made according to official regulations.

Section 14: Transport information

14.1 UN-Number

ADR	UN3272
RID	UN3272
ADN	UN3272
IMDG	UN3272

14.2 UN proper shipping name

ADR	UN3272
RID	UN3272
ADN	UN3272 ESTERS, N.O.S (2-methoxy-1-methylethylacetate)
IMDG	UN3272 ESTERS, N.O.S (2-methoxy-1-methylethylacetate), 3, III, (46^{0}C c.c.)

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

Class 3	3 Flammable liquids.
Label	3

14.3 Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5 Environmental hazards

Marine pollutant	No

14.6 Special precautions for user

Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	F-E,S-D
Stowage category:	A

14.7 Maritime transport in bulk according to

IMO instruments	Not applicable

Transport/Additional information

ADR/RID/ADN

Limited Quantities (LQ)	5L
Excepted Quantities (EQ)	Code E1 Maximum net quantity per inner packaging 30ml Maximum net quantity per outer packaging 1000ml
Transport category	3
Tunnel restriction code	D/E

IMDG

Limited Quantities (LQ)	5L
Excepted Quantities (EQ)	Code E1 Maximum net quantity per inner packaging 30ml Maximum net quantity per outer packaging 1000ml
UN "Model Regulation":	UN3272 ESTERS, N.O.S. (2-METHOXY-1-METHYLETHYLACETATE), 3, III

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisons Act
Regulated explosives precursors
Substance is not listed.

Regulated poisons
Substance is not listed.

Reportable explosives precursors
Substance is not listed.

Reportable poisons
Substance is not listed.

Directive 2012/18/EU
Named dangerous substances - ANNEX I
Substance is not listed.

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.

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
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. 3: Flammable liquids – Category 3

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3