Safety Data Sheet

According to 1907/2006/EC, Article 31

STARCOAT PMMA CLEANER

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

1.1 Product identifier

Trade name: STARCOAT PMMA CLEANER

CAS Number:
123-86-4
EC number:
204-658-1
Index number:
607-025-00-1

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

Section of use
No further relevant information available.
Application of the substance / the mixture Cleaning agent/ cleaner

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. 3	H226 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 GB CLP regulation.

Hazard pictograms

GHS02

GHS07

Signal word Warning

Hazard-determining components of labelling
n-butyl acetate

Hazard statements

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

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information

EUH066 Repeated exposure may cause skin dryness or cracking.

Buildup of explosive mixtures possible without sufficient ventilation.

Section 3: Composition/information on ingredients

3.1 Substance

CAS No. Description

123-86-4 n-butyl acetate

Identification number(s)

EC number: 204-658-1

Index number: 607-025-00-1

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.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

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.

Seek immediate medical advice

After swallowing:

Rince mouth.

A person vomiting while laying on their back should be turned onto their side.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache

Nausea

Dizziness

Repeated exposure may cause skin dryness or cracking.

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:

Alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO2). Sand. Water mist.

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.
In case of fire, the following can be released: carbon dioxide (CO2)
Carbon monoxide (CO)
Vapours are heavier than air and may form an explosive mixture with air.
Fire recoil is possible over a considerable distance.

5.3 Advice for firefighters

Protective equipment:
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

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources.
Ensure adequate ventilation, especially in confined spaces. Do not breathe gas / smoke / vapor / spray.

6.2 Environmental precautions:

Do not allow product 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).
Dispose contaminated material as waste according to item 13.

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

Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
Prevent formation of aerosols.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Vapors are heavier than air and may form an explosive mixture with air.
Use explosion-proof apparatus / fittings and spark-proof tools.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store in cool, dry place in tightly closed receptacles.
Store only in the original receptacle.

Information about storage in one common storage facility:
Avoid contact with ignition points. Avoid any contact with oxidizing agents, of strongly alkaline and strongly acidic materials. Always store the product in containers of the same material as the original container. Keep the recommendations on the label. Store the product away from heat sources and direct sunlight.
Further information about storage conditions:
Keep container tightly sealed.
Protect from heat and direct sunlight.

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: 123-86-4 n-butyl acetate		
WEL	Short-term value Long-term value	966 mg/m³, 200 ppm 724 mg/m³, 150 ppm
DNELs		
123-86-4 n-butylacetate		
Workers inhalation Workers inhalation Workers inhalation Workers inhalation Workers dermal Workers dermal	Long term system effects Short term system effects Long term local effects Short term local effects Long term system effects Short term system effects	300 g/m³ 600 g/m³ 300 g/m³ 600 g/m³ 11 mg/kg/ day 11 mg/kg/ day

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
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or inhale while working.

Respiratory protection

When ventilation is good, not needed. In case of brief exposure or low pollution use respiratory filter device (filter type A). In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands

Solvent resistant gloves.

Material of gloves

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.

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.3 mm

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.

Eye/face protection

Tightly sealed goggles.

Body protection

Protective work clothing.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour	Colourless.
Odour	Characteristic.
Odour threshold	Not determined.
Melting point/freezing point	-76^{0}C
Boiling point or initial boiling point and boiling range	124-128^{0}C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower	1.2 Vol %
Upper	15 Vol %
Flash point	27^{0}C (CAS: 123-86-4 n-butyl acetate)
Auto-Ignition temperature	370 °C (CAS: 123-86-4 n-butyl acetate)
Decomposition temperature	Not determined.
pH (5 g/l) at 2^{0}C	6.2
Viscosity	
Kinematic viscosity	0.83 mm^2/s
Dynamic at 20°C	0.7 mPas
Solubility	
Water at 20^{0}C	5.3 g/l
Partition coefficient n-octanol/water (log value)	log Pow: 2.3 (25^{0}C)
Vapour pressure at 20^{0}C	15 hPa (CAS: 123-86-4 n-butyl acetate)

Density and/or relative density

Density at 20°C	0.88 g/cm³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information No further information available.

Appearance

Form	Liquid.
Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Organic solvents	100.0 %

Change in condition

Softening point/ range	
Oxidising properties	Not determined.
Evaporation rate	Not determined.

Information with regard to physical hazard classes

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.
Organic peroxides	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**
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
Forms explosive gas mixture with air.

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

10.5 **Incompatible materials**
Reacts with acids, alkalis and oxidising agents.

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-methylethyl acetate		
Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/l (rat)

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

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

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

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.

11.2 Information on other hazards

Endocrine disrupting properties

Substance is not listed

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity		
CAS: 123-86-4 n-butyl acetate		
Inhalative	LC50 EC50	18 mg/l /96 h (fish) 44 mg/l (daphnia)

12.2 Persistence and degradability

Easily biodegradable.

12.3 Bioaccumulative potential

Does not accumulate in organisms.

12.4 Mobility in soil

Light absorption.

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) (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

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

Disposal must be made according to official regulations.

Packaging may be reused or recycled after cleaning.

Section 14: Transport information

14.1 UN number

ADR	UN1123
IMDG	UN1123
IATA	UN1123

14.2 UN proper shipping name

ADR	UN1123 BUTYL ACETATES
IMDG	BUTYL ACETATES
IATA	BUTYL ACETATES

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

Class	3 Flammable liquids.
Label	3

14.4 Packing group

ADR	III
IMDG	III
IATA	III

14.5 Environmental hazards Not applicable.

14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code):	30
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

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

IMDG

Limited Quantities (LQ)	5L
Excepted Quantities (EQ)	Code E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 1000 ml
UN "Model Regulation":	UN 1123 BUTYL ACETATES, 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
Substance is not 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

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:
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)

DNEL: Derived No-Effect Level (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

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

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