Safety Data Sheet

According to 1907/2006/EC Article 31

STARCOAT PMMA MORTAR (Aggregrate)

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

1.1 Product identifier
Trade name: STARCOAT PMMA MORTAR AGGREGRATE

1.2 Relevant identified uses of the substance or mixture and uses advised against See Section 16
Application of the substance / the mixture Mortar filler

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
This product is not classified according to the CLP regulation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 None
Hazard pictograms None
Signal word None
Hazard statements: None
Additional information
EUH208 Contains dicyclohexyl phthalate, dibenzoyl peroxide. May product an allergic reaction.
EUH210 Safety data sheet available on request.

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 consisting of following components:

Dangerous components:		
CAS: 84-61-7 EINECS: 201-545-9 Reg nr. 01-2119978223-34-0001	dicyclohexyl phthalate Repr.1B, H360D; Skin Sens.1, H317; Aquatic Chronic 3, H412	≥ 0.1 - < 0.3%
SVHC		
84-61-7	dicyclohexyl phthalate	

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

After inhalation:
Supply fresh air, consult doctor if person complains of any ill-effects

After skin contact:
Immediately wash with water and soap and rinse thoroughly generally the product does not cause skin irritation

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor

After swallowing: If symptoms persist, call a doctor

4.2 Most important symptoms and effects, both acute and delayed
No further information available

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: CO_2, 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

No further information available.

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

Avoid formation of dust.

Keep away from ignition sources.

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:

Pick up mechanically.

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

No special measures required.

Provide good ventilation/suction at work (at least 7-fold air changes per hour).

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

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.

Should not be stored but only transported in vehicles.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Storage in dry conditions.
Max storage temperature 30°C.
Keep container tightly sealed.
Protect from heat and direct sunlight.
Should not be stored but only transported in vehicles.

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 at the workplace: this product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.		
84-61-7 dicyclohexyl phthalate ≥0.1 - <0.3%		
WEL	Long term value 5mg/m³	
DNELs		
84-61-7 dicyclohexyl phthalate		
Oral Dermal Inhalative	DNEL (population) DNEL (worker) DNEL DNEL (worker) DNEL (population)	0.25 mg/kg bw/day (population) (Long-term – oral systemic) 0.5 mg/kg bw/day (Employee / Industrial / Commercial) Acute systemic 0.25 mg/kg bw/day (population) Long-term systemic skin 35.2 mg/ m³ (Employee / Industrial / Commercial) Acute systemic 0.87 mg/ m³ (population) Long term inhalation systemic
94-36-0 dibenzoyl peroxide		
Oral Dermal	DNEL (population) DNEL DNEL	1.65 mg/kg bw/day (population) 11.75 mg/ m³ (Employee / Industrial / Commercial) 2.9 mg/ m³ (population) 6.6 mg/kg bw/day (Employee / Industrial / Commercial) 3.3 mg/kg bw/day (population)

PNECs		
84-61-7 dicyclohexyl phthalate		
Oral	PNEC oral PNEC PNEC	133 mg/kg (foodstuff) 0.21 mg/kg (ground) 1.06 mg/kg (sediment) (freshwater) 10 mg/l (sewage plant) 0.000362 mg/l (seawater) 0.00362 mg/l (freshwater)

94-36-0 dibenzoyl peroxide		
Oral	PNEC oral PNEC PNEC	6.67 mg/kg (foodstuff) 0.0758 mg/kg (ground) 0.0338 mg/kg (sediment) (freshwater) 0.35 mg/l (sewage plant) 0.0000602 mg/l (seawater) 0.000602 mg/l (freshwater)

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

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection

Not required.

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 regarding 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:	Powder like
Colour:	Varies according to colouring
Odour:	Undistinguishable
Odour threshold:	Not determined
pH-value:	Not applicable
Change in condition	
Melting point/freezing point:	1713°C
Initial boiling point/boiling range:	>999 °C
Flash point:	Not applicable
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	
Decomposition temperature:	Not determined
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapour pressure	Not applicable
Density at 20 °C:	2.61 g/cm³ (EN ISO 2811-1)
Relative density	Not determined
Vapour density	Not applicable
Evaporation rate	Not applicable
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic	Not applicable
Kinematic	Not applicable
Solvent content:	
Water	0.0%
Solids content:	100.0%

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
No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

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:		
84-61-7 dicyclohexyl phthalate		
Oral	LD50	>5000 mg/kg (rat)
94-36-0 dibenzoyl peroxide		
Oral Inhalative	LD50 LC50	>2000 mg/kg (mouse) >24,300 mg/l (rat) (dust)

Primary irritant effect:

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

Subacute to chronic toxicity: Not tested.

84-61-7 dicyclohexyl phthalate		
Oral	NOAEL	50 mg/kg/d (rat) (oral toxicity (90d)) Concentration at which no adverse effect was observed. Developmental toxicity: concentration at which no adverse effect was observed, 250 mg/kg/day (oral) (rat) Fertility: concentration at which no adverse effect was observed, 16-21 mg / kg / day (oral) (rat)

94-36-0 dibenzoyl peroxide		
Oral	NOAEL NOAEL/29d	200 mg/kg/d (rat) adverse effect observed 500 mg/kg/d (unknown) Concentration at which no adverse effect was observed. 1.000 mg/kg (unknown) Concentration at which no adverse effect was observed.

CMR effects (carcinogenicity, mutagenicity and toxicity or 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:	
84-61-7 dicyclohexyl phthalate	
NOEL EC50/48h LC50/96h	>100 mg/l (bacteria) Activated sludge; 3 hr under lower threshold >2 mg/l (daphnia magna) max. attainable concentration >2 mg/l (oryzias latipes) max. attainable concentration
94-36-0 dibenzoyl peroxide	
EC50 EC50/48h LC50/96h NOEC/72h EC50/72h NOEC	35 mg/l (bacteria) (Respiratory inhibition test for activated sludge) 0.11 mg/l (daphnia magna) 0.06 mg/l (fish) 0.02 mg/l (Pseudokirchneriella subcapitata) (OECD 201) 0.0711 mg/l (Pseudokirchneriella subcapitata) (OECD 201) 0.077 mg/l (daphnia magna) (OECD 202) 48h 0.0316 mg/l (Rainbow trout) (OECD 203) 96h

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential Dibenzoyl peroxide: partition coefficient: n-octanol/water: log Pow:3.2 (20oC)

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.
Empty containers to go to an approved waste handling site for recycling or disposal.

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
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:
Disposal must be made according to official regulations.

Section 14: Transport information

14.1	**UN-Number** **ADR, ADN, IMDG, IATA**	None
14.2	**UN proper shipping name** **ADR, ADN, IMDG, IATA**	None
14.3	**Transport hazard class(es)** **ADR, ADN, IMDG, IATA** **Class**	None
14.4	**Packing Group** **ADR, IMDG, IATA**	None
14.5	**Environmental Hazards:** **Marine pollutant**	No
14.6	**Special precautions for user**	Not applicable
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable
	UN "Model Regulation"	None

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.

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.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57	
85-61-7	dicyclohexyl phthalate

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

H317	May cause an allergic skin reaction
H360D	May damage an unborn child
H412	Harmful to aquatic life with long lasting effects

Training recommendations
Instruction about hazards and precautions 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
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)
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
Skin Irrit.2: Skin corrosion/irritatio, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Sources:
www.gestis.de
www.echa.eu
logkow.cisti.nrc.ca

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