

23.01.2023	Kit components
Product code	Description
86944	Ultra Alu (cartridge)
Components:	
86944A	Ultra Alu Part A (cartridge)
86944B	Ultra Alu Hardener Part B (cartridge) (BPO)



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	Safety data sheet	
	according to 1907/2006/EC, Article 31	
rinting date 23.01.2023	Version number 8 (replaces version 7)	Revision: 19.01.2023
SECTION 1: Identification of	the substance/mixture and of the company/undertaking	
1.1 Product identifier		
Trade name: Ultra Alu Part A	(cartridge)	
Article number: 86944A	es of the substance or mixture and uses advised ag	gainst
• 1.3 Details of the supplier • Manufacturer/Supplier: KENT (United Kingdom) Ltd Forsyth House Pitreavie Drive Pitreavie Business Park Dunfermline Fife KY11 8US	of the safety data sheet	
Fax: +44 1383 620079	1925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm	1
SDS@kenteurope.com • 1.4 Emergency telephone Tel: +44 01383 723344 During nor	number: nal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00)am - 3.00pm
SECTION 2: Hazards identified	ibstance or mixture	
	Ibstance or mixture Regulation (EC) No 1272/2008	
2.1 Classification of the successfication according to R	Ibstance or mixture Regulation (EC) No 1272/2008	
2.1 Classification of the su Classification according to R flame Flam. Liq. 3 H226 Flammable liq health hazard Repr. 2 H361d Suspected of	Ibstance or mixture Regulation (EC) No 1272/2008	
2.1 Classification of the su Classification according to R flame Flam. Liq. 3 H226 Flammable liq health hazard Repr. 2 H361d Suspected of	Ibstance or mixture Pegulation (EC) No 1272/2008 guid and vapour. damaging the unborn child. age to the hearing organs through prolonged or repeated exposure.	
2.1 Classification of the su Classification according to R flame Flam. Liq. 3 H226 Flammable liq health hazard Repr. 2 H361d Suspected of STOT RE 1 H372 Causes dama Skin Irrit. 2 H315 Causes skin i Eye Irrit. 2 H315 Causes skin i Eye Irrit. 2 H319 Causes seriou Skin Sens. 1 H317 May cause ar 2.2 Label elements	Ibstance or mixture Pegulation (EC) No 1272/2008 guid and vapour. damaging the unborn child. age to the hearing organs through prolonged or repeated exposure.	according to the GB CLP regulation.
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Hazard-determining components of labelling: styrene maleic anhydride Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H361d Suspected of damaging the unborn child.
styrene maleic anhydride Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
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H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
H317 May cause an allergic skin reaction.
H261d Suspected of damaging the unborn child
H372 Causes damage to the hearing organs through prolonged or repeated exposure.
Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe fumes.
P280 Wear protective gloves / eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

[•] 3.2 Mixtures

· Description: Mixture of the substances listed below with harmless additions.

Dangerous components	S:	
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	styrene � Flam. Liq. 3, H226; � Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; � Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	10-25%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium 🚸 Flam. Sol. 1, H228	<3%
	Hydrocarbons, C9, aromatics	<3%
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-21	maleic anhydride	<0.1%
Additional information	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

[•] 4.1 Description of first aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Instantly remove any clothing soiled by the product.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact

Instantly 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 doctor.

• After swallowing Do not induce vomiting; instantly call for medical help.

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

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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. Do not use water.
- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- Can form explosive gas-air mixtures.
- 5.3 Advice for firefighters

Protective equipment:

- Do not inhale explosion gases or combustion gases. Wear self-contained breathing apparatus.
- Wear full protective suit. Additional information
- Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources Ensure adequate ventilation
- 6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

Inform respective authorities in case product reaches water 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). Send for recovery or disposal in suitable containers. Ensure adequate ventilation.

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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges. Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

- · Storage
- Requirements to be met by storerooms and containers:
- Store in cool location.

Store only in the original container.

- 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 containers.
- Protect from heat and direct sunlight.

Storage class 3

7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection [•] 8.1 Control parameters Components with limit values that require monitoring at the workplace: 100-42-5 styrene WEL Short-term value: 1080 mg/m³, 250 ppm Long-term value: 430 mg/m³, 100 ppm 108-31-6 maleic anhydride WEL Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen · Regulatory information WEL: EH40/2020 DNELs 100-42-5 styrene Dermal Long term systemic effect 406 mg/kg bw/dy (Worker) Inhalative Long term systemic effect 85 mg/m3 (Worker) Acute local effect 306 mg/m3 (Worker) 289 mg/m3 (Worker) Acute systemic effect Hydrocarbons, C9, aromatics Dermal Long term systemic effect 25 mg/kg bw/day (Worker) Inhalative Long term systemic effect 100 mg/m3 (Worker) 108-65-6 2-methoxy-1-methylethyl acetate Dermal Long term systemic effect 796 mg/kg/day (Worker) Inhalative Long term systemic effect 275 mg/m³ (Worker) Long term local effect 550 mg/m3 (Worker) 141-78-6 Ethyl acetate Long term systemic effect 63 mg/kg bw/day (Worker) Dermal Inhalative Long term systemic effect 734 mg/m3 (Worker) Acute local effect 1,468 mg/m3 (Worker) Long term local effect 734 mg/m3 (Worker) Acute systemic effect 1,468 mg/m3 (Worker) 108-31-6 maleic anhydride Dermal Acute systemic effect 0.04 mg/kg bw/day (Worker) Acute local effect 0.04 mg/kg (Worker) Long term systemic effect 0.04 mg/kg (Worker) Inhalative Long term systemic effect 0.4 mg/m3 (Worker) Acute local effect 0.8 mg/m3 (Worker) · PNECs 100-42-5 styrene PNEC 0.028 mg/l (Aqua (freshwater)) 0.04 mg/l (Aqua (intermittent)) 0.0028 mg/l (Aqua (marine water)) 0.614 mg/kg (Freshwater sediment) 0.0614 mg/kg (Marine water sediment) 5 mg/l (Sewage treatment plant) 0.2 mg/kg (Soil) 108-65-6 2-methoxy-1-methylethyl acetate PNEC 0.635 mg/l (Aqua (freshwater)) 1.27 mg/l (Aqua (intermittent)) 0.0127 mg/l (Aqua (marine water)) 26,670 mg/kg (Marine water sediment) 38.3 mg/l (Sewage treatment plant) 53,182 mg/kg (Soil) 141-78-6 Ethyl acetate PNEC 0.24 mg/l (Aqua (freshwater)) 0.024 mg/l (Aqua (marine water)) (Contd. on page 5)

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	(Contd. of page
	1.15 mg/kg (Freshwater sediment)
	0.115 mg/kg (Marine water sediment)
	650 mg/l (Sewage treatment plant)
	1-6 maleic anhydride
PNEC	0.04281 mg/l (Aqua (freshwater))
	0.004281 mg/l (Aqua (marine water))
	0.344 mg/kg (Marine water sediment)
	44.6 mg/l (Sewage treatment plant)
	0.0415 mg/kg (Soil)
Addit	ional information: The lists that were valid during the compilation were used as basis.
Appro Indivi Gene Be sur Keep a Take o Wash Store Do noi Avoid Breat Use bi Filter o Hand	Exposure controls opriate engineering controls No further data; see item 7. idual protection measures, such as personal protective equipment ral protective and hygienic measures re to clean skin thoroughly after work and before breaks. away from foodstuffs, beverages and food. off immediately all contaminated clothing hands during breaks and at the end of the work. protective clothing separately. tinhale dust / smoke / mist. contact with the eyes and skin. thing equipment: reathing protection in case of insufficient ventilation. A2 / P2 (EN 14387) protection Protective gloves.
Due to Select Mater Wear	ove material has to be impermeable and resistant to the product/ the substance/ the preparation. The missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. The glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves suitable gloves tested to EN 374 rubber, NBR
Fluoro	carbon rubber (Viton)
The se to mar advan Pene	nmended thickness of the material: \geq 0.7 mm election of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufact nufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in ce and has therefore to be checked prior to the application. tration time of glove material
The ex	for the permeation: Level 6 > 480 minutes xact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. ace protection
	Safety glasses (EN 166)

9.1 Information on basic physical and chemica	al properties	
General Information		
Physical state	Fluid	
Colour:	Silver grey	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	Not determined	
Boiling point or initial boiling point and boiling ran	ae 145 °C	

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Flammability	Flammable.	
Lower and upper explosion limit		
Lower:	0.7 Vol %	
Upper:	7.5 Vol %	
Flash point:	31 °C	
Decomposition temperature:	Not determined.	
pH	Mixture is non-soluble (in water).	
Viscosity:		
Kinematic viscosity	Not determined.	
dynamic:	Not determined.	
Solubility		
Water:	Not miscible / difficult to mix	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20 °C:	6.7 hPa	
Density and/or relative density		
Density at 20 °C	1.75-1.8 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
	Not determined.	
9.2 Other information		
Appearance:		
Form:	Pasty	
Important information on protection of health and	•	
environment, and on safety.		
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive. However, formation of explosive air/steam	
	mixtures is possible.	
Solvent content:	,	
Organic solvents:	max 250 g/l VOC	
Change in condition		
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 gas	ses	
in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	
Descharader explosives	VOIU	

SECTION 10: Stability and reactivity

. 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
- Reacts with peroxides and other radical forming substances Exothermic polymerisation
- * 10.4 Conditions to avoid Heat. Hot surfaces. Sources of ignition. Flames.
- * 10.5 Incompatible materials: No further relevant information available.

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• **10.6 Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

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 that are relevant for classification:
 100-42-5 styrene

 Oral
 LD50
 5,000 mg/kg (Rat)

Inhalative LC50 (4 hr) 12 mg/l (Rat)

Hydrocarbons, C9, aromatics

Oral LD50 >2,000-≤5,000 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rabbit)

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

Oral LD50 8,500 mg/kg (Rat)

141-78-6 Ethyl acetate

Oral LD50 4,935 mg/kg (rbt)

Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Reproductive toxicity Suspected of damaging the unborn child.

• STOT-repeated exposure Causes damage to the hearing organs through prolonged or repeated exposure.

[•] 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

100-42-5 styr	ene
EC50 (48 hr)	4.7 mg/l (Daphnia magna)
EC50 (72 hr)	4.9 mg/l (Pseudokirchneriella subcapitata)
LC50 (96 hr)	4.02 mg/l (Pimephales promelas)
7429-90-5 alu	minium
LC50 (96 hr)	12 mg/l (Fish) (Rainbow trout)
Hydrocarbon	s, C9, aromatics
EL50 (48 hr)	3.2 mg/l (Daphnia magna)
LL50 (96 hr)	9.2 mg/l (Oncorhynchus mykiss)
NOEC (72 hr)	1 mg/l (Pseudokirchneriella subcapitata)
108-65-6 2-m	ethoxy-1-methylethyl acetate
EC50 (48 hr)	>100 mg/l (Crustacea)
EC50 (72 hr)	>100 mg/l (Algae)
LC50 (96 hr)	>100 mg/l (Fish)
NOEC	100 mg/l (Crustacea)
	>10 mg/l (Fish)
141-78-6 Ethy	/ acetate
EC50 (48 hr)	165 mg/l (Daphnia magna)
EC50 (72 hr)	>900 mg/l (Algae)
LC50 (96 hr)	230 mg/l (Pimephales promelas)
	stence and degradability No further relevant information available.
	cumulative potential No further relevant information available.
	ity in soil No further relevant information available.
⁻ 12.5 Resul	ts of PBT and vPvB assessment
• PBT: Not app	
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· **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 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information 14.1 UN number or ID number · ADR, IMDG, IATA UN3269 [•] 14.2 UN proper shipping name · ADR 3269 POLYESTER RESIN KIT · IMDG, IATA POLYESTER RESIN KIT 14.3 Transport hazard class(es) · ADR · Class 3 (F3) Flammable liquids. · Label 3 IMDG, IATA · Class 3 Flammable liquids. · Label 3 [·] 14.4 Packing group · ADR, IMDG, ĬAŤA III14.5 Environmental hazards: · Marine pollutant: No 14.6 Special precautions for user Warning: Flammable liquids. Kemler Number: · EMS Number: F-E,S-D Stowage Category А 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 51 Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity (Contd. on page 9)

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· Transport category	3
Tunnel restriction code	E
·IMDG	
Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: See SP340
· UN "Model Regulation":	UN 3269 POLYESTER RESIN KIT, 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 upper-tier requirements 50,000 t

National regulations

• Technical instructions (air):

Class	Share in %
NK	16.5

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

* 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H302 Harmful if swallowed.
- May be fatal if swallowed and enters airways. H304
- Causes severe skin burns and eye damage. H314
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

Department issuing data specification sheet: Environment protection department

Abbreviations and acronyms:

RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

- ADR: 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 (UK REACH) PNEC: Predicted No-Effect Concentration (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 Flam. Sol. 1: Flammable solids Category 1
- Acute Tox. 4: Acute toxicity Category 4

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Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Stor SE: Specific target organ toxicity (repeated exposure) – Category 3 STOT SE 3: Specific target organ toxicity (repeated exposure) – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 * **Data compared to the previous version altered.** *



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Safety data sheet according to 1907/2006/EC, Article 31 Version number 7 (replaces version 6) SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier · Trade name: Ultra Alu Hardener Part B (cartridge) (BPO) · Article number: 86944B 1.2 Relevant identified uses of the substance or mixture and uses advised against FOR PROFESSIONAL AND INDUSTRIAL USE ONLY · Application of the substance / the mixture Hardening agent / curing agent 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: KENT (United Kingdom) Ltd Forsyth House Pitreavie Drive Pitreavie Business Park Dunfermline Fife KY11 8US Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm Fax: +44 1383 620079 SDS@kenteurope.com 1.4 Emergency telephone number: Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm **SECTION 2: Hazards identification** 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 flame Org. Perox. E H242 Heating may cause a fire. environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. Eve Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. 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 GHS09 · Signal word Warning (Contd. on page 2)

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Trade name: Ultra Alu Hardener Part B (cartridge) (BPO)

(Contd. of page 1) · Hazard-determining components of labelling: dibenzoyl peroxide Hazard statements H242 Heating may cause a fire. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements P101 If medical advice is needed, have product container or label at hand. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. [•] 2.3 Other hazards [•] Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture of the substances listed below with harmless additions.

CAS: 94-36-0 EINECS: 202-327-6 Org. Perox. B, H241; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2,	_ 25-50%
Reg.nr.: 01-2119511472-50 H319; Skin Sens. 1, H317	
CAS: 131-11-3 dimethyl phthalate EINECS: 205-011-6 substance with a Community workplace exposure limit Reg.nr.: 01-2119437229-36	25-50%
CAS: 107-21-1 Ethane-1,2-diol EINECS: 203-473-3 STOT RE 2, H373; ① Acute Tox. 4, H302 Reg.nr.: 01-2119456816-28	_ 5-10%

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- · General information Instantly remove any clothing soiled by the product.
- After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Instantly 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. If symptoms persist, consult doctor.

After swallowing Do not induce vomiting; instantly call for medical help.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant 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 CO2, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam. • For safety reasons unsuitable extinguishing agents Water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. Can form explosive gas-air mixtures.

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5.3 Advice for firefighters · Protective equipment:

Do not inhale explosion gases or combustion gases. Wear self-contained breathing apparatus.

Additional information

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources 6.2 Environmental precautions: Inform respective authorities in case product reaches water or sewage system. Do not allow to enter drainage system, 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). Send for recovery or disposal in suitable containers. Dispose of 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 information on disposal.
SECTION 7: Handling and storage
 7.1 Precautions for safe handling Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Open and handle container with care. Keep away from heat and direct sunlight. Keep containers tightly sealed. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Fumes can combine with air to form an explosive mixture. Protect from heat. Protect against electrostatic charges. Prevent impact and friction.
 7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and containers: Store in cool location. Store only in the original container. Information about storage in one common storage facility: Store away from oxidising agents. Further information about storage conditions: Keep container tightly sealed.

Keep container tightly sealed.

Protect from heat and direct sunlight. <25°C

· Storage class 5.2

* 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

131-11-3 dimethyl phthalate

WEL Short-term value: 10 mg/m³ Long-term value: 5 mg/m³

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	-	
407 04 4	Ethono 1 2 dial	(Contd. of pag
	Ethane-1,2-diol	10**
Lon	ort-term value: 104** mg/m³, ng-term value: 10* 52** mg/n *particulate **vapour	
	ory information WEL: EF	140/2020
DNELs		
-	libenzoyl peroxide	
	Acute systemic effect	6.6 mg/kg bw/day (Worker)
	Acute systemic effect	11.75 mg/m3 (Worker)
	Ethane-1,2-diol	
Dermal	Long term systemic effect	106 ma/ka/day (Worker)
	Long term local effect	35 mg/m3 (Worker)
PNECs	g	
	Filiana 1.0 dial	
	Ethane-1,2-diol	
) mg/l (Aqua (freshwater))	
) mg/l (Aqua (intermittent))	
	mg/l (Aqua (marine water))).9 mg/kg (Freshwater sedin	pent
	7 mg/kg (Marine water sedir 99.5 mg/l (Sewage treatmen	·
	53 mg/l (Soil)	(plant)
		that were valid during the compilation were used as basis.
Breathin Ensure go limit. Filter A2 /	′ P2 (EN 14387)	sufficient breathing protection must be used so that the vaporisation level is held under the workplac
	Protection Protective gloves.	
Due to mi Selection Material Wear suit Nitrile rub	ssing tests no recommenda of the glove material on cor of gloves able gloves tested to EN 37 ber, NBR	
to manufa advance a Penetra Value for The exact	acturer. As the product is a p and has therefore to be chec tion time of glove mate the permeation: Level 6 > 4	
	Safety glasses (EN 166)	
\mathbf{V}		

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· Body protection: Protective work clothing (EN-13034/6)

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical p	roperties
General Information	
· Physical state	Fluid
· Colour:	Red
· Odour:	Characteristic
[·] Odour threshold:	Not determined.
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	Not determined
· Flammability	May cause fire.
• Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	50 °C
Decomposition temperature:	SADT 50 °C
рН	Mixture is non-polar/aprotic.
Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Not miscible / difficult to mix
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	<1 hPa
Density and/or relative density	
Density at 20 °C	1.15-1.25 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance:	
· Form:	Pasty
Important information on protection of health and	
environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
0.1	Risk of explosion by shock, friction, fire or other sources of ignition.
Solvent content:	
Organic solvents:	NIL VOC
Change in condition	
· 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	Void
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	Heating may cause a fire.
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 Corrosive to metals Desensitised explosives Void Void

SECTION 10: Stability and reactivity

. 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. 10.3 Possibility of hazardous reactions
- Reacts with reducing agents

Reacts with strong acids and alkali

Forms explosive gases / fumes

10.4 Conditions to avoid Heat. Hot surfaces. Sources of ignition. Flames.

10.5 Incompatible materials:

Rapid decompositon by dirt, dust, chemicals in particular concentrated acids, alkalis and accelerators Reducing agents Amines

Heavy-metal compounds

10.6 Hazardous decomposition products:

Danger of toxic pyrolysis products

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

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 that are relevant for classification: 94-36-0 dibenzoyl peroxide Oral LD50 >5,000 mg/kg (Rat) Inhalative LC50 (4 hr) 24.3 mg/l (Rat) 131-11-3 dimethyl phthalate LD50 6,800 mg/kg (Rat) Oral 107-21-1 Ethane-1,2-diol LD50 5,840 mg/kg (Rat) Oral Dermal LD50 9,530 mg/kg (rbt) Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation May cause an allergic skin reaction. 11.2 Information on other hazards Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

Aquatic toxic	sity:				
94-36-0 dibenzoyl peroxide					
EC50 (48 hr)	2.9 mg/l (Daphnia magna)				
EC50 (72 hr)	0.0711 mg/l (Pseudokirchneriella subcapitata)				
LC50 (96 hr)	0.0602 mg/l (Oncorhynchus mykiss)				
131-11-3 dime	hyl phthalate				
EC50 (48 hr)	52 mg/l (Daphnia magna)				
LC50 (96 hr)	39 mg/l (Fish)				
107-21-1 Ethar	ne-1,2-diol				
EC50 (96 hr)	6.5-13 mg/l (Algae)				
	6,500-13,000 mg/l (Selenastrum capricornutum)				

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ade name: Ultra Alu Hardener Part B (cartridge) (BPO)				
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Label	5.2			
Class	5.2 Organic peroxides.			
Label	5.2			
14.4 Packing group ADR, IMDG, IATA	Void			
14.5 Environmental hazards:				
Marine pollutant:	Yes Symbol (fish and tree)			
Special marking (ADR):	Symbol (fish and tree)			
14.6 Special precautions for user Kemler Number:	Warning: Organic peroxides. -			
EMS Number:	F-J,S-R			
Stowage Category Stowage Code	D Diffe Distants of from a summary of head			
Sowage Code	SW1 Protected from sources of heat.			
Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.			
14.7 Maritime transport in bulk according				
instruments	Not applicable.			
Transport/Additional information:				
ADR				
Limited quantities (LQ)	500 g			
Excepted quantities (EQ)	Solo g Code: E0			
	Not permitted as Excepted Quantity			
Transport category	2			
Tunnel restriction code	D			
· IMDG				
Limited quantities (LQ)	500 g			
Excepted quantities (ÉQ)	Code: E0 Not permitted as Excepted Quantity			
UN "Model Regulation":	UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE), 5.2, ENVIRONMENTALLY HAZARDOUS			

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
- P6b SELF-REĂCTĪVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- National regulations
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information	
These data are based on our present knowledge. However, they shall not constitute a guarantee a not establish a legally valid contractual relationship.	for any specific product features and sha
Relevant phrases H241 Heating may cause a fire or explosion. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life.	
H410 Very toxic to aquatic life with long lasting effects.	
Department issuing data specification sheet: Environment protection department Abbreviations and acronyms: RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail) IGAO: International Civil Aviation Organisation ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: 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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent DPSD: Persistent, Bioaccumulative and Toxic VPWB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides – Type B/F Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin sens. 1: Skin sensitisation – Category 1 STOT RE: 2: Specific target organ toxicit (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - lo	