

23.01.2023	Kit components
Product code	Description
86945	Ultra Multi (cartridge)
Components:	
86945A	Ultra Multi Part A (cartridge)
86945B	Ultra Multi Hardener Part B (cartridge) (BPO)



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Safety data sheet according to 1907/2006/EC, Article 31 Version number 7 (replaces version 6)

Revision: 19.01.2023

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

1.1 Product identifier

Printing date 23.01.2023

· Trade name: Ultra Multi Part A (cartridge)

· Article number: 86945A

- **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 Filler and surfacer

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 Flam. Liq. 3 H226 Flammable liquid and vapour. health hazard Repr. 2 H361d Suspected of damaging the unborn child. STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure. Skin Irrit. 2 H315 Causes skin irritation. Eye 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 GHS08 · Signal word Danger (Contd. on page 2)

— GB

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	(Contd. of page 1)
· Hazard-dete	rmining components of labelling:
styrene	
maleic anhydri	de
2,2'-(m-tolylimi	no)diethanol
Hazard state	ments
H226 Flamma	able liquid and vapour.
H315 Causes	
H319 Causes	serious eye irritation.
	use an allergic skin reaction.
H361d Suspec	ted of damaging the unborn child.
H372 Causes	damage to the hearing organs through prolonged or repeated exposure.
	ry statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves / eve protection.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional in	nformation:
Warning! Haza	rdous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
2.3 Other h	azards
· Results of P	BT and vPvB assessment
· PBT: Not appl	
• vPvB: Not app	oncapie.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

CAS: 100-42-5	styrene	10-25%
EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	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	-
CAS: 13463-67-7 EINECS: 236-675-5	Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] substance with a Community workplace exposure limit	0-10%
CAS: 91-99-6 EINECS: 202-114-8 Reg.nr.: 01-2120791683-42	2,2'-(m-tolylimino)diethanol STOT RE 2, H373; Signa Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	<1%
CAS: 2687-91-4 EINECS: 220-250-6 Reg.nr.: 01-2119472138-36	N-Ethyl-2-Pyrrolidone � Repr. 1B, H360D; 🕐 Eye Irrit. 2, H319	<0.5%
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-21	maleic anhydride	<0.1%

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. If symptoms persist, consult doctor.

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- · 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, 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 Deference to other co
- 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 8 for information on personal protection e
- 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 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] WEL Long-term value: 10* 4** mg/m3 *total inhalable **respirable 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) Acute systemic effect 289 mg/m3 (Worker) 141-78-6 Ethyl acetate Dermal Long term systemic effect 63 mg/kg bw/day (Worker) 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 Acute systemic effect 0.04 mg/kg bw/day (Worker) Dermal 0.04 mg/kg (Worker) Acute local effect 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) 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] PNEC 0.184 mg/l (Aqua (freshwater)) 0.193 mg/l (Aqua (intermittent)) 0.0184 mg/l (Aqua (marine water)) 1,000 mg/kg (Freshwater sediment) 100 mg/kg (Marine water sediment) 100 mg/l (Sewage treatment plant) 100 mg/kg (Soil) 141-78-6 Ethyl acetate PNEC 0.24 mg/l (Aqua (freshwater)) 0.024 mg/l (Aqua (marine water)) 1.15 mg/kg (Freshwater sediment) 0.115 mg/kg (Marine water sediment) 650 mg/l (Sewage treatment plant) (Contd. on page 5)

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Upper:

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(Contd. of page 4) 108-31-6 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) • Additional information: The lists that were valid during the compilation 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 Be sure to clean skin thoroughly after work and before breaks. Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing Wash hands during breaks and at the end of the work. Store protective clothing separately. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Breathing equipment: Use breathing protection in case of insufficient ventilation. Filter A / P2 (EN 14387) Hand protection Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves Wear suitable gloves tested to EN 374 Nitrile rubber, NBR Recommended thickness of the material: \geq 0.7 mm 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material Value for the permeation: Level 6 > 480 minutes 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 Safety glasses (EN 166) Body protection: Protective work clothing (EN-13034/6) **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties General Information · Physical state Fluid · Colour: Yellow · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Not determined Boiling point or initial boiling point and boiling range 145 °C · Flammability Flammable. Lower and upper explosion limit

1.1 Vol %

11.5 Vol %

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· Flash point:	31 °C
 Decomposition temperature: 	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
Kinematic viscosity	Not determined.
· dynamic at 20 °C:	3,000 mPas
Solubility	
Water:	Not miscible / difficult to mix
· Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	98 hPa
Density and/or relative density	
· Density at 20 °C	1.85-1.89 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance: · Form:	Deet
Important information on protection of health and	Pasty
environment, and on safety.	
· Self-inflammability:	Duradust is uset as lignificat
	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
Solvent content:	mixtures is possible.
· Organic solvents:	16.5 %
Change in condition	10.5 %
· Evaporation rate	Not determined.
•	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 in contract with water. 	
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 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.

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

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		(Contd. of
SECTIO	N 11: Tox	icological information
11 1 Inf	ormation	n on hazard classes as defined in Regulation (EC) No 1272/2008
		sed on available data, the classification criteria are not met.
	-	hat are relevant for classification:
100-42-5	stvrene	
Oral	LD50	5,000 mg/kg (Rat)
Inhalative	LC50 (4 h	r) 12 mg/l (Rat)
		n dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 µm]
Oral	LD50	>20,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (rbt)
	ErC 50	61 mg/l (Algae) (EPA 600/9-78-018, 72 hr)
141-78-6	Ethyl aceta	
Oral	LD50	4,935 mg/kg (rbt)
Skin cor	rosion/irr	ritation Causes skin irritation.
		age/irritation Causes serious eye irritation.
Resnirat	orv or sk	r in sensitisation May cause an allergic skin reaction.
		icity Suspected of damaging the unborn child.
		xposure Causes damage to the hearing organs through prolonged or repeated exposure.
		n on other hazards
		ting properties
		nts is listed.
None or u	le illyrealer	115 15 115160.
SECTIO	N 12: Eco	logical information
12.1 To	-	
Aquatic		
100-42-5	styrene	
EC50 (48	hr) 4.7 mg	ı/l (Daphnia magna)
EC50 (72	hr) 4.9 mg	y/l (Pseudokirchneriella subcapitata)
LC50 (96	hr) 4.02 m	ng/l (Pimephales promelas)
13463-67-	7 Titaniun	n dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μ m]
LC50 (48	hr) 5.5 mg	y/I (Crustacea)
LC50 (96	hr) >100 n	ng/l (Oncorhynchus mykiss) (= OECD 203)
		limino)diethanol
		g/l (Daphnia magna)
		ng/l (Pseudokirchneriella subcapitata)
	hr) >102 n	
	Ethyl aceta	
	-	g/l (Daphnia magna)
LUJU (40	111) 105 110	yr (caprinia magna)

EC50 (48 hr) 165 mg/l (Daphnia n EC50 (72 hr) >900 mg/l (Algae)

LC50 (96 hr) 230 mg/l (Pimephales promelas)

¹12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

· 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 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.

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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

SECTION 14: Transport Information	
[•] 14.1 UN number or ID number [•] ADR, IMDG, IATA	UN3269
[·] 14.2 UN proper shipping name · ADR · IMDG, IATA	3269 POLYESTER RESIN KIT 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, IATA	<i>III</i>
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user Kemler Number:	Warning: Flammable liquids.
EMS Number:	F-E,S-D
Stowage Category	A
[•] 14.7 Maritime transport in bulk according	a to IMO
instruments	Not applicable.
Transport/Additional information:	
ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	3
Tunnel restriction code	E
·IMDG	
Limited quantities (LQ)	5L
	5L Code: See SP340

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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

- Flammable liquid and vapour. H226
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eve irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H360D May damage the unborn child.
- Suspected of damaging the unborn child. H361d
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- 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)

ICAC: 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 Acute Tox. 4: Acute toxicity Category 4 Skin Corr. 1B: Skin corrosion/irritation Category 1B Skin Irrit. 2: Skin corrosion/irritation Category 2
- Even min. 2. own consistent/inflation 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: Respiratory sensitisation Category 1 Skin Sens. 1: Skin sensitisation Category 1 Skin Sens. 1A: Skin sensitisation Category 1A Skin Sens. 1B: Skin constitution Category 1A

- Skin Sens. 1B: Skin sensitisation Category 1B Repr. 1B: Reproductive toxicity Category 1B Repr. 2: Reproductive toxicity Category 2

- STOT SE 3: Specific target organ toxicity (single exposure) Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category

- STOT RE 2: Specific target organ toxicity (repeated exposure) Category 7 STOT RE 2: Specific target organ toxicity (repeated exposure) Category 7 Asp. Tox. 1: Aspiration hazard Category 1 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 Multi Hardener Part B (cartridge) (BPO) · Article number: 86945B 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) GB

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

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Hazard-deter	mining components of labelling:
dibenzoyl perox	ide
Hazard stater	ments
H242 Heating m	nav cause a fire.
	erious eye irritation.
H317 May caus	e an allergic skin reaction.
H410 Very toxic	to aquatic life with long lasting effects.
Precautionar	y 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	
P305+P351+P3	138 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 ha	nzards
Results of PE	3T and vPvB assessment
PBT: Not appli	cable
vPvB: Not app	

SECTION 3: Composition/information on ingredients

[•] 3.2 Mixtures

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

 Dangerous components 	S:	
CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide � � Org. Perox. B, H241; � Aquatic Acute 1, H400; Aquatic Chronic 1, H410; � Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 131-11-3 EINECS: 205-011-6 Reg.nr.: 01-2119437229-36	dimethyl phthalate substance with a Community workplace exposure limit	25-50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	Ethane-1,2-diol STOT RE 2, H373;	5-10%
· Additional information	For the wording of the listed hazard phrases refer to section 16	

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

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· 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. 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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		(Contd. of pag
	Ethane-1,2-diol	
	rt-term value: 104** mg/m³, g-term value: 10* 52** mg/n	
	particulate **vapour	τ, 20 ppm
	ory information WEL: EH	40/2020
DNELs		
	benzoyl peroxide	
	Acute systemic effect	6.6 mg/kg bw/day (Worker)
	Acute systemic effect	11.75 mg/m3 (Worker)
	Ethane-1,2-diol	
	Long term systemic effect	106 ma/ka/day (Worker)
	Long term local effect	35 mg/m3 (Worker)
PNECs		
	Thoma 12 dial	
	Ethane-1,2-diol mg/l (Aqua (freshwater))	
	mg/l (Aqua (intermittent))	
	ng/l (Aqua (marine water))	
	.9 mg/kg (Freshwater sedim	ient)
	' mg/kg (Marine water sedin	
	9.5 mg/l (Sewage treatment	,
	53 mg/l (Soil)	
		that were valid during the compilation were used as basis.
Individua General Keep away Take off in Wash han Do not inh Avoid cont	al protection measures protective and hygiening from foodstuffs, beverage nmediately all contaminated ds during breaks and at the ale dust / smoke / mist. tact with the eyes.	s and food. I clothing
Individua General Keep away Take off in Wash han Do not inh Avoid cont Avoid cont Breathin Ensure go limit.	al protection measures protective and hygienio y from foodstuffs, beverage nmediately all contaminated ds during breaks and at the ale dust / smoke / mist. tact with the eyes. tact with the eyes and skin. g equipment: od ventilation. If this is not s	, such as personal protective equipment c measures s and food. I clothing
Individua General Keep away Take off in Wash han Do not inh Avoid cont Avoid cont Breathin Ensure go limit.	al protection measures protective and hygienio y from foodstuffs, beverage mediately all contaminated ds during breaks and at the ale dust / smoke / mist. tact with the eyes. tact with the eyes and skin. g equipment: od ventilation. If this is not s P2 (EN 14387)	, such as personal protective equipment c measures s and food. I clothing end of the work.
Individua General Keep away Take off in Wash han Do not inh Avoid cont Avoid cont Breathin Ensure go limit. Filter A2 /	al protection measures protective and hygienio y from foodstuffs, beverage mediately all contaminated ds during breaks and at the ale dust / smoke / mist. tact with the eyes. tact with the eyes and skin. g equipment: od ventilation. If this is not s P2 (EN 14387)	, such as personal protective equipment c measures s and food. I clothing end of the work.
Individua General J Keep away Take off in Wash han Do not inhh Avoid cont Breathin Ensure go limit. Filter A2 / Hand pro The glove Due to mis Selection of Wear suita	al protection measures protective and hygienic y from foodstuffs, beverage mediately all contaminated ds during breaks and at the ale dust / smoke / mist. tact with the eyes. tact with the eyes and skin. g equipment: od ventilation. If this is not s P2 (EN 14387) otection Protective gloves. material has to be imperme- sing tests no recommendat of the glove material on con- of gloves able gloves tested to EN 37-	able and resistant to the product/ the substance/ the preparation. tion to the glove material can be given for the product/ the preparation/ the chemical mixture.
Individua General Keep away Take off in Wash han Do not inh Avoid cont Breathin Ensure go limit. Filter A2 / Hand pro The glove Due to mis Selection of Material Vitrile rubu The select to manufac advance a Penetrat Value for t	al protection measures protective and hygienio y from foodstuffs, beverage mediately all contaminated ds during breaks and at the ale dust / smoke / mist. tact with the eyes. tact with the eyes and skin. g equipment: od ventilation. If this is not s P2 (EN 14387) otection Protective gloves. material has to be impermen- sing tests no recommendation of the glove material on con- of gloves able gloves tested to EN 37- ber, NBR ion of the suitable gloves do cturer. As the product is a p ind has therefore to be check ion time of glove material he permeation: Level 6 > 44	 , such as personal protective equipment c measures s and food. I clothing end of the work. sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace sideration to the glove material can be given for the product the preparation. 4 bes not only depend on the material, but also on further marks of quality and varies from manufactur reparation of several substances, the resistance of the glove material can not be calculated in ked prior to the application. ial 30 minutes
Individua General Keep away Take off in Wash han Do not inh Avoid cont Breathin Ensure go limit. Filter A2 / Hand pro The glove Due to mis Selection of Material Wear suita Nitrile rube The select to manufad advance a Penetrat Value for t The exact	al protection measures protective and hygienio y from foodstuffs, beverage mediately all contaminated ds during breaks and at the ale dust / smoke / mist. tact with the eyes. tact with the eyes and skin. g equipment: od ventilation. If this is not s P2 (EN 14387) otection Protective gloves. material has to be impermen- sing tests no recommendation of the glove material on con- of gloves able gloves tested to EN 37- ber, NBR ion of the suitable gloves do cturer. As the product is a p ind has therefore to be check ion time of glove material he permeation: Level 6 > 44	a such as personal protective equipment c measures s and food. I clothing end of the work. sufficient breathing protection must be used so that the vaporisation level is held under the workplace sufficient breathing protection must be used so that the vaporisation level is held under the workplace is the glove material can be given for the product/ the preparation. tion to the glove material can be given for the product/ the preparation/ the chemical mixture. sideration of the penetration times, rates of diffusion and the degradation 4 Des not only depend on the material, but also on further marks of quality and varies from manufactur reparation of several substances, the resistance of the glove material can not be calculated in iked prior to the application.

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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
· pH	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/cm³
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance: · Form:	D ₁
-	Pasty
Important information on protection of health and	
environment, and on safety. · Self-inflammability:	Braduat is not colfigniting
• Explosive properties:	Product is not selfigniting. Product is not explosive.
Explosive properties.	Risk of explosion by shock, friction, fire or other sources of ignition.
· Solvent content:	
· Organic solvents:	NIL VOC
Change in condition	NIE VOC
· Evaporation rate	Not determined.
•	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 gase	
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 >5,000 mg/kg (Rat) Oral LD50 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	icity:	
94-36-0 dibenz	zoyl 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	ethyl 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)	
		(Contd. on page

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			Safety data sheet		
			according to 1907/2006/EC, Article 31		
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		lltra Multi Harden 3PO)	er Part B (cartridge)		
				(Conte	
	EC50 (48 hr)	>100 mg/l (Daphi			
	LC50 (96 hr)	40,761 mg/l (Fish			
	NOFC (24 day		ephales promelas)		
		s) 15,380 mg/l (Pim	adability No further relevant information available.		
	12.3 Bioaco 12.4 Mobilit 12.5 Result PBT: Not appl vPvB: Not app 12.6 Endoc 12.7 Other a Remark: Very Additional et General note Water hazard o Do not allow un Also poisonous	ty in soil No furthers s of PBT and visionable. policable. rine disrupting adverse effects / toxic for fish cological informates: plass 1 (German Reg	ential No further relevant information available. er relevant information available. PvB assessment properties The product does not contain substances we ation: gulation) (Self-assessment): slightly hazardous for water. arge quantities of it to reach ground water, water bodies or		
•	SECTION 13	: Disposal consid	derations		
		treatment meth lation Must not be	nods disposed of together with household garbage. Do not allow	/ product to reach sewage system.	
	· Uncleaned p · Recommend		ist be made according to official regulations.		
		. T			
	SECTION 14	: Transport infor	mation		
	· 14.1 UN nul · ADR, IMDG,	mber or ID num IATA	ber UN3108		
	44.0 (1))				

 14.1 UN number or ID number ADR, IMDG, IATA 	UN3108
[•] 14.2 UN proper shipping name	
ADR	3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS
IMDG	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT
	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
14.3 Transport hazard class(es)	
ADR	
Class	5.2 (P1) Organic peroxides.
Label	5.2
· IMDG	
Class	5.2 Organic peroxides.
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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	Warning: Organic peroxides.	
Kemler Number:	-	
EMS Number:	F-J,S-R	
Stowage Category	D	
Stowage 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)	Code: E0	
	Not permitted as Excepted Quantity	
Transport category	2	
· Tunnel restriction code	D	
IMDG		
Limited quantities (LQ)	500 g	
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
IN "Model Degulation":		
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
	on our present knowledge. However, they shall not constitute a guarantee for any specific product features and sha valid contractual relationship.
H400 Very toxic to aqu	wed. ergic skin reaction. eye irritation. ge to organs through prolonged or repeated exposure.
Abbreviations and RID: (Regulations Concerning ICAC: International Civil Aviati ADR: European Agreement CC IMDG: International Maritime O IATA: International Air Transpo GHS: Globally Harmonised Sy EINECS: European Inventory (ELINCS: European List of Noth CAS: Chemical Abstracts Serv DNEL: Derived No-Effect Leve PNEC: Predicted No-Effect Leve PNEC: Predicted No-Effect Leve PNEC: Predicted No-Effect Col LS50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulat vPVB: very Persistent and very vorg. Perox. E: Organic peroxic Org. Perox. E: Organic peroxic Org. Perox. E: Organic peroxic Acute Tox. 4: Acute toxicity – (Eye Irit). 2: Serious eye damag Skin Sens. 1: Skin sensitisation STOT RE 2: Specific target org Aquatic Acute 1: Hazardous to Aquatic Action 1: Hazardous	the International Transport of Dangerous Goods by Rail) nn Organisation nncerning the International Carriage of Dangerous Goods by Road) bode for Dangerous Goods stem of Classification and Labelling of Chemicals of Existing Commercial Chemical Substances fed Chemical Substances lied Chemical Substances ice (division of the American Chemical Society) (UK REACH) ncentration (UK REACH) reperent ve and Toxic Bioaccumulative es – Type B es – Type B