

# 23.01.2023 Kit components

Product code	Description
86946	Ultra Finish (cartridge)
Components:	
86946A	Ultra Finish Part A
86946B	Ultra Finish (cartridge) Hardener Part B (BPO)



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Revision: 19.01.2023

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

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

- 1.1 Product identifier
- · Trade name: Ultra Finish Part A
- · Article number: 86946A
- 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



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

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# according to 1907/2006/EC, Article 31

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Trade name: Ultra Finish Part A

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#### · Hazard-determining components of labelling:

styrene

maleic anhydride

2,2'-(m-tolylimino)diethanol

#### 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.

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.

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

#### Additional information:

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### 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: 13463-67-7 EINECS: 236-675-5		
CAS: 91-99-6 EINECS: 202-114-8 Reg.nr.: 01-2120791683-42	2,2'-(m-tolylimino)diethanol ❖ STOT RE 2, H373; ❖ Eye Dam. 1, H318; ❖ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	<3%
CAS: 2687-91-4 EINECS: 220-250-6 Reg.nr.: 01-2119472138-36	EINECS: 220-250-6	
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-21	maleic anhydride ❖ Resp. Sens. 1, H334; STOT RE 1, H372; ❖ Skin Corr. 1B, H314; Eye Dam. 1, H318; ❖ Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	0-<0.25%

· 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. 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 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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Trade name: Ultra Finish Part A

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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/m<sup>3</sup> Long-term value: 1 mg/m³ 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)

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#### 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

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 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 Whitish

· Colour:

Characteristic

· Odour: · Odour threshold:

Not determined

Melting point/freezing point:

Not determined 145 °C

Boiling point or initial boiling point and boiling range Flammability

Flammable.

1.1 Vol %

Lower and upper explosion limit

· Lower:

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· Upper: 6.1 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 1.87 g/cm<sup>3</sup> · 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. 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 gases in contact with water Void Void Void

Oxidising liquids Oxidising solids 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.

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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	LD/LC50 values that are relevant for classification:		
100-42-5	100-42-5 styrene		
Oral	LD50	5,000 mg/kg (Rat)	
Inhalative	Inhalative LC50 (4 hr) 12 mg/l (Rat)		
13463-67-	13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]		
Oral	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 I	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

12.1 Toxicity		
· Aquatic toxicity:		
100-42-5 styrene		
4.7 mg/l (Daphnia magna)		
4.9 mg/l (Pseudokirchneriella subcapitata)		
4.02 mg/l (Pimephales promelas)		
tanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]		
5.5 mg/l (Crustacea)		
>100 mg/l (Oncorhynchus mykiss) (= OECD 203)		
n-tolylimino)diethanol		
107 mg/l (Daphnia magna)		
>100 mg/l (Pseudokirchneriella subcapitata)		
>102 mg/l (Fish)		
l acetate		
165 mg/l (Daphnia magna)		
>900 mg/l (Algae)		
230 mg/l (Pimephales promelas)		

- 12.2 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.

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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.

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

IMDG, IATA



Class 3 Flammable liquids. Label

14.4 Packing group

· ADR, IMDG, IATA Ш

14.5 Environmental hazards:

· Marine pollutant: No

14.6 Special precautions for user Warning: Flammable liquids.

· Kemler Number:

· EMS Number: F-E,S-D · Stowage Category Α

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· Limited quantities (LQ)

Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity

· Transport category 3 Tunnel restriction code Ε

· Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: See SP340

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· 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 %
1	0.2
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.
- 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 eye 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.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- Harmful to aquatic life with long lasting effects. H412
- 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 (ÚK 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 1
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: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B Repr. 1B: Reproductive toxicity – Category 1B

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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 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 1
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

Printing date 23.01.2023

Version number 7 (replaces version 6)

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

- 1.1 Product identifier
- Trade name: <u>Ultra Finish (cartridge) Hardener Part B</u>
  (BPO)
- · Article number: 86946B
- \* 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



Org. Perox. E H242 Heating may cause a fire.



Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



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

GHS09

· Signal word Warning

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## according to 1907/2006/EC, Article 31

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Trade name: Ultra Finish (cartridge) Hardener Part B

(BPO)

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#### · 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.

Dangerous components:		
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; ① Acute Tox. 4, H302	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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

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.

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.

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/m<sup>3</sup>

Long-term value: 5 mg/m³

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107-21-1 Ethane-1,2-diol

WEL | Short-term value: 104\*\* mg/m³, 40\*\* ppm Long-term value: 10\* 52\*\* mg/m³, 20\*\* ppm

Sk \*particulate \*\*vapour

Regulatory information WEL: EH40/2020

**DNELs** 

94-36-0 dibenzoyl peroxide

Dermal Acute systemic effect 6.6 mg/kg bw/day (Worker) Inhalative Acute systemic effect 11.75 mg/m3 (Worker)

107-21-1 Ethane-1.2-diol

Dermal Long term systemic effect 106 mg/kg/day (Worker) Inhalative Long term local effect 35 mg/m3 (Worker)

#### PNECs

#### 107-21-1 Ethane-1,2-diol

PNEC 10 mg/l (Aqua (freshwater))

10 mg/l (Aqua (intermittent))

1 mg/l (Aqua (marine water))

20.9 mg/kg (Freshwater sediment)

3.7 mg/kg (Marine water sediment)

199.5 mg/l (Sewage treatment plant)

1.53 mg/l (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

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

# Breathing equipment:

Ensure good ventilation. If this is not sufficient breathing protection must be used so that the vaporisation level is held under the workplace

Filter A2 / 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

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)

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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:	mixture to from polaritapione.
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	Not determined.
Water:	Not missible / difficult to miv
	Not miscible / difficult to mix
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
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:	Pasty
Important information on protection of health and	
environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
, , ,	Risk of explosion by shock, friction, fire or other sources of ignition.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
	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	s
in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Heating may cause a fire.

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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 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 decompostion 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	LD/LC50 values that are relevant for classification:		
94-36-0 di	94-36-0 dibenzoyl peroxide		
Oral	LD50	>5,000 mg/kg (Rat)	
Inhalative	LC50 (4 hr)	24.3 mg/l (Rat)	
131-11-3	131-11-3 dimethyl phthalate		
Oral	Oral LD50 6,800 mg/kg (Rat)		
107-21-1 L	107-21-1 Ethane-1,2-diol		
Oral	LD50	5,840 mg/kg (Rat)	
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

# 12.1 Toxicity

Aquatic toxicity:		
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	thyl 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)	
EC50 (48 hr)	>100 mg/l (Daphnia magna)	
	(Contd. on page	

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LC50 (96 hr) 40,761 mg/l (Fish)

72,860 mg/l (Pimephales promelas)

NOEC (21 days) 15,380 mg/l (Pimephales promelas)

12.2 Persistence and degradability No further relevant information available.

· Other information: The product is biodegradable.

- · 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
- · Remark: Very toxic for fish
- · Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

#### **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	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	
IATA	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)	

### 14.3 Transport hazard class(es)

· ADR



Class 5.2 (P1) Organic peroxides.

· Label

· IMDG



Class 5.2 Organic peroxides.

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5.2

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· Label · IATA



Class 5.2 Organic peroxides.

· Label 5.2

· 14.4 Packing group · ADR, IMDG, IATA

· ADR, IMDG, IATA Void

14.5 Environmental hazards:

· Marine pollutant: Yes

Special marking (ADR):

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 CodeSW1 Protected from sources of heat.Segregation CodeSG35 Stow "separated from" SGG1-acidsSG36 Stow "separated from" SGG18-alkalis.

14.7 Maritime transport in bulk according to IMO

**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

\*\*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-REACTIVE 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 for any specific product features and shall not establish a legally valid contractual relationship.

#### · 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)

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

GHS: Globally Harmonised System of Classification and Labelling of Chemical 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 (ÚK REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

VPVB: very Persistent and very Bioaccumulative
Org. Perox. B: Organic peroxides – Type B
Org. Perox. E: Organic peroxides – Type E/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 toxicity (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

Data compared to the previous version altered. \*

GB