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Revision: 17.01.2023

### 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: Clear Bond
- · Article number: 34580
- 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 Adhesive
- 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. Lig. 2 H225 Highly flammable liquid and vapour.



health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

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#### · Hazard pictograms









· Signal word Danger

#### Hazard-determining components of labelling:

n-hexane

#### toluene

#### Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44	n-hexane <b>⑤</b> Flam. Liq. 2, H225; <b>⑥</b> Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; <b>⑥</b> Aquatic Chronic 2, H411; <b>ᠬ</b> Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 %	10-25%
CAS: 142-82-5 EINECS: 205-563-8	Heptane  Solution Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	10-25%
CAS: 96-37-7 EINECS: 202-503-2	methylcyclopentane  § Flam. Liq. 2, H225; \$ Asp. Tox. 1, H304; \$ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	5-15%
CAS: 108-88-3 EINECS: 203-625-9	toluene <b>♦</b> Flam. Liq. 2, H225; <b>♦</b> Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; <b>♦</b> Skin Irrit. 2, H315; STOT SE 3, H336	5-10%
CAS: 26602-62-0 EINECS: 247-872-0	Styrene, polymer with 1,3-butadiene and isoprene  Output  Output  Description:	<5%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane    Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Irrit. 2, H315; STOT SE 3, H336	<5%

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

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#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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

#### · After skin contact

Instantly wash with water and soap and rinse thoroughly.

Generally the product is not skin irritating.

- After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing In case of persistent symptoms consult doctor.
- 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 with a full water jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

#### 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).

Dispose of contaminated material as waste according to item 13.

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 ventilation/exhaustion at the workplace.

Open and handle container with care.

Prevent formation of aerosols.

#### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep breathing equipment ready.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Storage
- · Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

- Storage class 3
- 7.3 Specific end use(s) No further relevant information available.

- GB

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#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Components with limit values that require monitoring at the workplace:

110-54-3 n-hexane

WEL Long-term value: 72 mg/m³, 20 ppm

110-82-7 cyclohexane

WEL Short-term value: 1050 mg/m³, 300 ppm Long-term value: 350 mg/m³, 100 ppm

#### Regulatory information WEL: EH40/2020

#### · DNELs

#### 108-88-3 toluene

Dermal Long term systemic effect 384 mg/kg bw/day (Worker)
Inhalative Long term systemic effect 192 mg/m3 (Worker)
Acute local effect 384 mg/m3 (Worker)
Long term local effect 192 mg/m3 (Worker)
Acute systemic effect 384 mg/m3 (Worker)
384 mg/m3 (Worker)

#### 112945-52-5 Silica Amorphous

Inhalative Long term local effect 4 mg/m3 (Worker)

#### 6683-19-8 Pentaerythritol tetrakis (3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

Dermal Long term systemic effect 89.2 mg/kg bw/day (Worker) Inhalative Long term systemic effect 9.5 mg/m³ (Worker)

#### ·PNECs

#### 108-88-3 toluene

PNEC | 0.68 mg/l (Freshwater sediment)

0.68 mg/l (Marine water sediment) 13.61 mg/l (Sewage treatment plant)

2.89 mg/kg (Soil)

#### 6683-19-8 Pentaerythritol tetrakis (3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

PNEC 0.04 mg/l (Aqua (freshwater))

0.86 mg/l (Aqua (intermittent))

0.004 mg/l (Aqua (marine water))

1 mg/ml (Sewage treatment plant)

798,000 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

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 gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Breathing equipment: Filter A2 / P3 (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

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.

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Penetration time of glove material

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

Flammable solids



Tightly sealed safety glasses. (EN 166)

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical p	ronerties
General Information	Toperties
Physical state	Fluid
Colour:	Cloudy
Odour:	Petroleum-like
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	69 °C
Flammability	Highly flammable.
ower and upper explosion limit	Thighly hammapic.
-ower:	1 Vol %
Jpper:	9 Vol %
Flash point:	-30 °C
gnition temperature:	225 °C
Decomposition temperature:	Not determined.
oH Viceopitus	Mixture is non-polar/aprotic.
/iscosity:	Net determined
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:	Not determined.
Density and/or relative density	
Density at 20 °C	0.823 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
mportant 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:	45.5 %
Water:	0.1 %
Solids content:	31.3 %
Change in condition	
Evaporation rate	Not determined.
nformation with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void Void
Oxidising gases	Void Void
Gases under pressure	Void
Flammable liquids Flammable solids	Highly flammable liquid and vapour. Void

Void

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Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable	le gases	
in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

#### SECTION 10: Stability and reactivity

- · 10.1 Reactivity 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 No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

#### **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:		
108-88-3 t	108-88-3 toluene		
Oral	LD50	5,000 mg/kg (Rat)	
Dermal	LD50	12,124 mg/kg (Rabbit)	
Inhalative	LC50 (4 hr)	49 mg/l (Mouse)	
112945-52	112945-52-5 Silica Amorphous		
Oral	LD50	>5,000 mg/kg (Rat)	
Dermal	LD50	>5,000 mg/kg (Rat)	
110-82-7	110-82-7 cyclohexane		
Oral	LD50	12,705 mg/kg (Rat)	
Inhalative	LC50 (4 hr)	89,600 mg/l (Rabbit)	

- Skin corrosion/irritation Causes skin irritation.
- · Reproductive toxicity Suspected of damaging fertility. Suspected of damaging the unborn child.
- · STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure May cause damage to 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**

. 40 4 Taviaite

12.1 Τοχισην		
· Aquatic toxicity:		
142-82-5 Heptane		
EC50 (24 hr)	>10 mg/l (Daphnia magna)	
EC50 (48 hr)	82.5 mg/l (Daphnia magna)	
EC50 (72 hr)	1.5 mg/l (Algae)	
LC50 (96 hr)	375 mg/l (Tilapia mossambica)	
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108-88-3 toluer	ne
EC50 (24 hr)	84 mg/l (Activated sludge)
EC50 (48 hr)	3.78 mg/l (Daphnia magna)
EC50 (72 hr)	10 mg/l (Algae)
LC50 (96 hr)	5.5 mg/l (Fish)
NOEC (7 days)	0.74 mg/l (Daphnia magna)
112945-52-5 Si	ica Amorphous
EC50 (24 hr)	>10,000 mg/l (Daphnia magna)
EL50 (72 hr)	>10,000 mg/l (Algae)
LC50 (96 hr)	>10,000 mg/l (Brachydanio rerio)
6683-19-8 Pent	aerythritol tetrakis (3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)
EC50 (72 hr)	>100 mg/l (Desmodesmus subspicatus)
LC50 (96 hr)	>100 mg/l (Danio rerio (Zebra fish; semistatic)) (OECD 203)

- · 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
- · Remark: Toxic for fish
- · 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.

Also poisonous for fish and plankton in water bodies.

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.

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1133
14.2 UN proper shipping name	
ADR	1133 ADHESIVES, special provision 640D, ENVIRONMENTALLY HAZARDOUS
IMDG	ADHESIVES (HEXANES, HEPTANES), MARINE POLLUTANT
IATA	ADHESIVES

#### · 14.3 Transport hazard class(es)

ADR



Class 3 (F1) Flammable liquids.

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(Contd. of page 7) · Label · IMDG 3 Flammable liquids. Class · Label ·IATA 3 Flammable liquids. · Label 14.4 Packing group · ADR, IMDG, IATA 14.5 Environmental hazards: Product contains environmentally hazardous substances: n-hexane · Marine pollutant: Symbol (fish and tree) 14.6 Special precautions for user Warning: Flammable liquids. Kemler Number: 33 · EMS Number: F-E.S-D Stowage Category · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category 2 Tunnel restriction code D/E · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 1133 ADHESIVES, SPECIAL PROVISION 640D, 3, II, **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

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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- · National regulations
- · Technical instructions (air):

Class	Share in %
1	20.0
NK	25.5

- · 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

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

H361f Suspected of damaging fertility.

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.
H411 Toxic to aquatic life with long lasting effects.

### Department issuing data specification sheet: Environment protection department

#### Abbreviations and acronyms:

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. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard — Category 1

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 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2

Data compared to the previous version altered. \*