



23.01.2023

Kit components

Product code	Description
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85792	3K Clear Coat Kit
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Components:

85792A	3K KIT CLEAR COAT CAR LIGHTS - Clear coat
85792B	3K KIT CLEAR COAT CAR LIGHTS Hardener
85792C	3K KIT CLEAR COAT CAR LIGHTS - Protector

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 10 (replaces version 9)

Revision: 18.01.2023

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

1.1 Product identifier

Trade name: **3K KIT CLEAR COAT CAR LIGHTS - Clear coat**

Article number: 85792A

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 *Lacquer*

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

STOT RE 2 H373 May cause damage to 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.

STOT SE 3 H335 May cause respiratory irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

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Signal word Warning**Hazard-determining components of labelling:**

Reaction mass of ethylbenzene and xylene

n-butyl acetate

reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye protection.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

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:**

EC number: 905-588-0 Reg.nr.: 01-2119488216-32 01-2119486136-34	Reaction mass of ethylbenzene and xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	10-25%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119486773-24	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335; STOT SE 3, H336	5-10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	<3%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	<3%
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318	<3%
CAS: 104810-48-2 ELINCS: 400-830-7 Reg.nr.: 01-0000015075-76	reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) Aquatic Chronic 2, H411; Skin Sens. 1A, H317	<1%
EC number: 939-607-9 Reg.nr.: 01-2119977130-42	Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyl(dimethyl, ethyl sulphates Acute Tox. 3, H311; Skin Corr. 1C, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.5%
CAS: 97-88-1 EINECS: 202-615-1 Reg.nr.: 01-2119486394-28	Butyl methacrylate Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<0.25%
CAS: 868-77-9 EINECS: 212-782-2 Reg.nr.: 01-2119490169-29	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	<0.25%

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 CAS: 1065336-91-5
 EC number: 915-687-0
 Reg.nr.: 01-2119491304-40

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

<0.25%

Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317

 · **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 and call for doctor for safety reasons.
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.
- **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**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear full protective suit.
Put on breathing apparatus.
- **Additional information** 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**
Ensure adequate ventilation
Keep away from ignition sources
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
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 interior ventilation, especially at floor level. (Fumes are heavier than air).
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.

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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:**

5-30°C

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· **Components with limit values that require monitoring at the workplace:**

Reaction mass of ethylbenzene and xylene

WEL	Short-term value: 441 mg/m ³ , 100 ppm
	Long-term value: 220 mg/m ³ , 50 ppm
	Sk; BMGV

123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m ³ , 150 ppm

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

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

· **Regulatory information** WEL: EH40/2020

DNELs

Reaction mass of ethylbenzene and xylene

Dermal	Long term systemic effect	180 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	77 mg/m ³ (Worker)
	Acute systemic effect	289 mg/m ³ (Worker)

123-86-4 n-butyl acetate

Dermal	Acute systemic effect	11 mg/kg bw/day (Worker)
	Long term systemic effect	11 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	300 mg/m ³ (Worker)
	Acute local effect	600 mg/m ³ (Worker)
	Long term local effect	300 mg/m ³ (Worker)
	Acute systemic effect	600 mg/m ³ (Worker)

64742-95-6 Hydrocarbons, C9, aromatics

Dermal	Long term systemic effect	25 mg/kg/day (Worker)
Inhalative	Long term systemic effect	150 mg/m ³ (Worker)

100-41-4 Ethylbenzene

Dermal	Long term systemic effect	180 mg/kg/day (Worker)
Inhalative	Acute local effect	293 mg/m ³ (Worker)
	Long term local effect	77 mg/m ³ (Worker)

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

Dermal	Long term systemic effect	796 mg/kg/day (Worker)
Inhalative	Long term systemic effect	275 mg/m ³ (Worker)
	Long term local effect	550 mg/m ³ (Worker)

141-78-6 Ethyl acetate

Dermal	Long term systemic effect	63 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	734 mg/m ³ (Worker)
	Acute local effect	1,468 mg/m ³ (Worker)
	Long term local effect	734 mg/m ³ (Worker)

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	Acute systemic effect	1,468 mg/m ³ (Worker)
· PNECs		
Reaction mass of ethylbenzene and xylene		
PNEC	0.327 mg/l (Aqua (freshwater)) 0.327 mg/l (Aqua (marine water)) 12.46 mg/l (Freshwater sediment) 12.46 mg/l (Marine water sediment) 6.58 mg/l (Sewage treatment plant) 2.31 (Soil)	
123-86-4 n-butyl acetate		
PNEC	0.18 mg/l (Aqua (freshwater)) 0.36 mg/ml (Aqua (intermittent)) 0.018 mg/ml (Aqua (marine water)) 0.981 mg/kg (Freshwater sediment) 0.0981 mg/kg (Marine water sediment) 35.6 mg/l (Sewage treatment plant) 0.09 mg/kg (Soil)	
100-41-4 Ethylbenzene		
PNEC	0.1 mg/l (Aqua (freshwater)) 0.1 mg/l (Aqua (intermittent)) 0.1 mg/l (Aqua (marine water))	
108-65-6 2-methoxy-1-methylethyl acetate		
PNEC	0.635 mg/l (Aqua (freshwater)) 1.27 mg/l (Aqua (intermittent)) 0.0127 mg/l (Aqua (marine water)) 26,670 mg/kg (Marine water sediment) 38.3 mg/l (Sewage treatment plant) 53,182 mg/kg (Soil)	
141-78-6 Ethyl acetate		
PNEC	0.24 mg/l (Aqua (freshwater)) 0.024 mg/l (Aqua (marine water)) 1.15 mg/kg (Freshwater sediment) 0.115 mg/kg (Marine water sediment) 650 mg/l (Sewage treatment plant)	
· Ingredients with biological limit values:		
Reaction mass of ethylbenzene and xylene		
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid	

· **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.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter A (EN 14387)

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· 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



Tightly sealed 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:

Clear

· Odour:

Aromatic

· Odour threshold:

Not determined.

· Melting point/freezing point:

Not determined

· Boiling point or initial boiling point and boiling range

Not determined

· Flammability

Flammable.

· Lower and upper explosion limit

· Lower:

Not determined.

· Upper:

Not determined.

· Flash point:

23 °C (ASTM D93 02a (closed cup))

· 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:

Not determined.

· Density and/or relative density

· Density

Not determined

· Relative density at 20 °C

0.96

· Vapour density

Not determined.

· 9.2 Other information

· Appearance:

· Form:

Fluid

· 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.

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· Solvent content:	
· Organic solvents:	580 RFU
· 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
· 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** Forms explosive gas mixture with air
- **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:** 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 values that are relevant for classification:

Reaction mass of ethylbenzene and xylene		
Oral	LD50	>5,840 mg/kg (Rat)
Dermal	LD50	>2,920 mg/kg (Rabbit)
Inhalative	LC50 (4 hr)	>25 mg/l (Rat)
123-86-4 n-butyl acetate		
Oral	LD50	14,000 mg/kg (Rat)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	LD50	>6,800 mg/kg (Rat)
Dermal	LD50	>3,400 mg/kg (Rabbit)
100-41-4 Ethylbenzene		
Oral	LD50	3,500 mg/kg (Rat)
Dermal	LD50	5,000 mg/kg (Rabbit)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,500 mg/kg (Rat)
2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
Oral	LD50	8,025 mg/kg (Rat) (OECD Test Guideline 401)
Dermal	LD50	4,250 mg/kg (Rabbit)

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Inhalative	LC50 (4 hr)	>5.3 mg/l (Rat) (OECD Test Guideline 403)
97-88-1 Butyl methacrylate		
Oral	LD50	22,600 mg/kg (Rat)
Dermal	LD50	11,300 mg/kg (rbt)
Inhalative	LC50 (4 hr)	28.6 mg/l (Rat)
141-78-6 Ethyl acetate		
Oral	LD50	4,935 mg/kg (rbt)
868-77-9 2-hydroxyethyl methacrylate		
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>3,000 mg/kg (Rabbit)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause respiratory irritation. 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

· 12.1 Toxicity

· Aquatic toxicity:

Reaction mass of ethylbenzene and xylene

EC50 (48 hr)	3.2-9.5 mg/l (Daphnia magna)
LC50 (96 hr)	8.9-16.4 mg/l (Pimephales promelas)
NOEC (72 hr)	0.44 mg/l (Algae)
NOEC	1.3 mg/l (Fish)
NOEC (7 days)	0.96 mg/l (Daphnia magna)

123-86-4 n-butyl acetate

EC50 (48 hr)	44 mg/l (Daphnia magna)
EC50 (72 hr)	674.7 mg/l (Desmodesmus subspicatus)
LC50 (48 hr)	44 mg/l (Daphnia magna)
LC50 (96 hr)	18 mg/l (Pimephales promelas)
NOEC (72 hr)	200 mg/l (Desmodesmus subspicatus)

100-41-4 Ethylbenzene

EC50	>100 mg/l (Daphnia magna)
LC50 (96 hr)	>10 mg/l (Fish)

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

EC50 (48 hr)	>100 mg/l (Crustacea)
EC50 (72 hr)	>100 mg/l (Algae)
LC50 (96 hr)	>100 mg/l (Fish)
NOEC	100 mg/l (Crustacea)
	>10 mg/l (Fish)

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

EC50 (96 hr)	350 mg/l (Pseudokirchneriella subcapitata)
EC50 (48 hr)	324 mg/l (Daphnia magna)
LC50 (96 hr)	55 mg/l (Cyprinus carpio)
NOEC (21 days)	100 mg/l (Daphnia magna)

Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates

LC50 (96 hr)	13.8 mg/l (Danio rerio (Zebra fish; semistatic)) (OECD 203)
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141-78-6 Ethyl acetate

EC50 (48 hr)	165 mg/l (Daphnia magna)
EC50 (72 hr)	>900 mg/l (Algae)
LC50 (96 hr)	230 mg/l (Pimephales promelas)

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868-77-9 2-hydroxyethyl methacrylate



EC50	>3,000 mg/l (<i>Pseudomonas fluorescens</i>) (16 hr)
EC50 (48 hr)	380 mg/l (<i>Daphnia magna</i>)
EC50 (72 hr)	836 mg/l (<i>Selenastrum capricornutum</i>)
LC50 (96 hr)	>100 mg/l (Fish) (ORYZLAS LATIPES)

- **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:** Harmful to 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.
 Harmful to 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** UN1263
- **14.2 UN proper shipping name**
- **ADR** 1263 PAINT
- **IMDG, IATA** PAINT
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 3 (F1) Flammable liquids.
- **Label** 3
-
- **IMDG, IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group**
- **ADR, IMDG, IATA** III

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14.5 Environmental hazards:

· **Marine pollutant:** No

14.6 Special precautions for user

· **Warning:** Flammable liquids.
 · **Kemler Number:** 30
 · **EMS Number:** F-E, S-E
 · **Stowage Category** A

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

ADR

· **Limited quantities (LQ)** 5L
 · **Excepted quantities (EQ)** Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml
 · **Transport category** 3
 · **Tunnel restriction code** D/E

IMDG

· **Limited quantities (LQ)** 5L
 · **Excepted quantities (EQ)** Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1263 PAINT, 3, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

National regulations

Technical instructions (air):

Class	Share in %
NK	43.4

· **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.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H312 Harmful in contact with skin.
 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.
 H335 May cause respiratory irritation.

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- H336 May cause drowsiness or dizziness.
 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.
 EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing data specification sheet:** Environment protection department

· **Abbreviations and acronyms:**

- RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (UK REACH)
 PNEC: Predicted No-Effect Concentration (UK REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 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
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 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
 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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Printing date 23.01.2023

Version number 9 (replaces version 8)

Revision: 18.01.2023

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

1.1 Product identifier

Trade name: **3K KIT CLEAR COAT CAR LIGHTS Hardener**

Article number: 85792B

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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

Signal word *Danger*

Hazard-determining components of labelling:

Aliphatic polyisocyanate

4-methylpentan-2-one

2-methoxy-1-methylethyl acetate

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n-butyl acetate

Hazard statements

H225 Highly flammable liquid and vapour.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves / eye protection.

Additional information:

Contains isocyanates. May produce an allergic reaction.

Labelling of packages where the contents do not exceed 125 ml
Hazard pictograms


GHS02

GHS07

Signal word Danger

Hazard-determining components of labelling:

Aliphatic polyisocyanate

4-methylpentan-2-one

2-methoxy-1-methylethyl acetate

n-butyl acetate

Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves / eye protection.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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: 28182-81-2 EC number: 931-274-8 Reg.nr.: 01-2119485796-17	Aliphatic polyisocyanate ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	50-75%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-50%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	10-25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	<3%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335; STOT SE 3, H336	<3%

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· **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

· After inhalation

Supply fresh air and call for doctor for safety reasons.

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

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

Instantly remove any clothing soiled by the product.

If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

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

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

· 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.

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

Wear full protective suit.

· **Additional information** 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

Ensure adequate ventilation

Keep away from ignition sources

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

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

Keep away from heat and direct sunlight.

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.

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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: Not required.

Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

5-30°C

Storage class 3
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:
108-10-1 4-methylpentan-2-one

WEL	Short-term value: 416 mg/m ³ , 100 ppm
	Long-term value: 208 mg/m ³ , 50 ppm
	Sk, BMGV

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

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m ³ , 150 ppm

Regulatory information WEL: EH40/2020

DNELs
28182-81-2 Aliphatic polyisocyanate

Inhalative	Acute local effect	1 mg/m ³ (Worker)
	Long term local effect	0.5 mg/m ³ (Worker)

108-10-1 4-methylpentan-2-one

Dermal	Long term systemic effect	11.8 mg/kg/day (Worker)
Inhalative	Long term systemic effect	83 mg/m ³ (Worker)
	Acute local effect	208 mg/m ³ (Worker)
	Long term local effect	83 mg/m ³ (Worker)
	Acute systemic effect	208 mg/m ³ (Worker)

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

Dermal	Long term systemic effect	796 mg/kg/day (Worker)
Inhalative	Long term systemic effect	275 mg/m ³ (Worker)
	Long term local effect	550 mg/m ³ (Worker)

123-86-4 n-butyl acetate

Dermal	Acute systemic effect	11 mg/kg bw/day (Worker)
	Long term systemic effect	11 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	300 mg/m ³ (Worker)
	Acute local effect	600 mg/m ³ (Worker)
	Long term local effect	300 mg/m ³ (Worker)
	Acute systemic effect	600 mg/m ³ (Worker)

Hydrocarbons, C9, aromatics

Dermal	Long term systemic effect	25 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	100 mg/m ³ (Worker)

PNECs
28182-81-2 Aliphatic polyisocyanate

PNEC	0.127 mg/l (Aqua (freshwater))
	1.27 mg/l (Aqua (intermittent))

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	0.0127 mg/l (Aqua (marine water)) 266,700 mg/kg (Freshwater sediment) 26,670 mg/kg (Marine water sediment) 38.3 mg/l (Sewage treatment plant) 53,182 mg/kg (Soil)
108-10-1 4-methylpentan-2-one	
PNEC	0.6 mg/l (Aqua (freshwater)) 0.06 mg/l (Aqua (marine water)) 8.27 mg/kg (Freshwater sediment) 0.83 mg/kg (Marine water sediment) 27.5 mg/l (Sewage treatment plant) 1.3 mg/kg (Soil)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC	0.635 mg/l (Aqua (freshwater)) 1.27 mg/l (Aqua (intermittent)) 0.0127 mg/l (Aqua (marine water)) 26,670 mg/kg (Marine water sediment) 38.3 mg/l (Sewage treatment plant) 53,182 mg/kg (Soil)
123-86-4 n-butyl acetate	
PNEC	0.18 mg/l (Aqua (freshwater)) 0.36 mg/ml (Aqua (intermittent)) 0.018 mg/ml (Aqua (marine water)) 0.981 mg/kg (Freshwater sediment) 0.0981 mg/kg (Marine water sediment) 35.6 mg/l (Sewage treatment plant) 0.09 mg/kg (Soil)
Ingredients with biological limit values:	
108-10-1 4-methylpentan-2-one	
BMGV	20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one

· **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.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Filter A (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.

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- **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**



Tightly sealed 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:	Colourless
· Odour:	Fruit-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	116 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	23 °C (ASTM D93 2a (closed cup))
· 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:	Not determined.
· Density and/or relative density	
· Density	Not determined
· Relative density at 20 °C	0.96
· Vapour density	Not determined.

- **9.2 Other information**

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-flammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· 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	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void

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· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	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** Forms explosive gas mixture with air
- **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:** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if inhaled.

- **LD/LC50 values that are relevant for classification:**

28182-81-2 Aliphatic polyisocyanate

Oral LD50 >2,500 mg/kg (Rat)

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

108-10-1 4-methylpentan-2-one

Oral LD50 2,100 mg/kg (Rat)

Dermal LD50 16,000 mg/kg (Rabbit)

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

Oral LD50 8,500 mg/kg (Rat)

123-86-4 n-butyl acetate

Oral LD50 14,000 mg/kg (Rat)

Hydrocarbons, C9, aromatics

Oral LD50 >2,000-≤5,000 mg/kg (Rat)

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

- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

28182-81-2 Aliphatic polyisocyanate

EC10 >100 /48 hr (Daphnia magna) (OECD 202)

EC50 (72 hr) 3,828 mg/l (Activated sludge) (OECD 209)

LC50 (96 hr) >100 mg/l (Brachydanio rerio)

108-10-1 4-methylpentan-2-one

EC50 (48 hr) >200 mg/l (Crustacea)

LC50 (96 hr) >179 mg/l (Fish)

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

EC50 (48 hr)	>100 mg/l (Crustacea)
EC50 (72 hr)	>100 mg/l (Algae)
LC50 (96 hr)	>100 mg/l (Fish)
NOEC	100 mg/l (Crustacea)
	>10 mg/l (Fish)

123-86-4 n-butyl acetate

EC50 (48 hr)	44 mg/l (Daphnia magna)
EC50 (72 hr)	674.7 mg/l (Desmodesmus subspicatus)
LC50 (48 hr)	44 mg/l (Daphnia magna)
LC50 (96 hr)	18 mg/l (Pimephales promelas)
NOEC (72 hr)	200 mg/l (Desmodesmus subspicatus)

Hydrocarbons, C9, aromatics


EL50 (48 hr)	3.2 mg/l (Daphnia magna)
LL50 (96 hr)	9.2 mg/l (Oncorhynchus mykiss)
NOEC (72 hr)	1 mg/l (Pseudokirchneriella subcapitata)

- **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:** Harmful to 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.
Harmful to 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** UN1263
- **14.2 UN proper shipping name**
- **ADR** 1263 PAINT RELATED MATERIAL, special provision 640D
- **IMDG, IATA** PAINT RELATED MATERIAL
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 3 (F1) Flammable liquids.

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· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	30
· EMS Number:	F-E, S-E
· Stowage Category	B
· 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
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, SPECIAL PROVISION 640D, 3, II

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	29.8

- **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.

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.

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GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 9 (replaces version 8)

Revision: 18.01.2023

Trade name: 3K KIT CLEAR COAT CAR LIGHTS Hardener

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· **Relevant phrases**

- H225 *Highly flammable liquid and vapour.*
- H226 *Flammable liquid and vapour.*
- H304 *May be fatal if swallowed and enters airways.*
- H317 *May cause an allergic skin reaction.*
- H319 *Causes serious eye irritation.*
- H332 *Harmful if inhaled.*
- H335 *May cause respiratory irritation.*
- H336 *May cause drowsiness or dizziness.*
- H351 *Suspected of causing cancer.*
- H411 *Toxic to aquatic life with long lasting effects.*
- EUH066 *Repeated exposure may cause skin dryness or cracking.*

· **Department issuing data specification sheet:** Environment protection department

· **Abbreviations and acronyms:**

- RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Carc. 2: Carcinogenicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Data compared to the previous version altered.** *

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 8 (replaces version 7)

Revision: 18.01.2023

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

1.1 Product identifier

Trade name: **3K KIT CLEAR COAT CAR LIGHTS - Protector**

Article number: 85792C

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 Surface protection

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@kent europe.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. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2 H319 Causes serious eye 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.

Hazard pictograms



GHS02



GHS07

Signal word Danger

Hazard-determining components of labelling:

1-methoxypropan-2-ol

Ethyl acetate

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

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Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: 3K KIT CLEAR COAT CAR LIGHTS - Protector

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P312 Call a POISON CENTER/doctor if you feel unwell.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Labelling of packages where the contents do not exceed 125 ml
Hazard pictograms


GHS02

GHS07

Signal word Danger

Hazard-determining components of labelling:

1-methoxypropan-2-ol

Ethyl acetate

Hazard statements Void

Precautionary statements

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.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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: 107-98-2 EINECS: 203-539-1 Reg.nr.: 1-2119457435-35	1-methoxypropan-2-ol Flam. Liq. 3, H226; STOT SE 3, H336	25-50%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 1-2119475103-46	Ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-50%
CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22	isobutyl acetate Flam. Liq. 2, H225; STOT SE 3, H336, EUH066	5-10%
CAS: 1589-47-5 EINECS: 216-455-5	2-methoxypropanol Flam. Liq. 3, H226; Repr. 1B, H360D; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	<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 Instantly remove any clothing soiled by the product.

After inhalation Supply fresh air; consult doctor in case of symptoms.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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

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

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

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Trade name: 3K KIT CLEAR COAT CAR LIGHTS - Protector

(Contd. of page 2)

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.
Water.
- **5.2 Special hazards arising from the substance or mixture** Formation of poisonous gases during heating or in fires.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Put on breathing apparatus.
- **Additional information** 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**
Ensure adequate ventilation
Keep away from ignition sources
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Prevent material from reaching sewage system, holes and cellars.
- **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 interior ventilation, especially at floor level. (Fumes are heavier than air).
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **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:**
5-30°C
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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Trade name: 3K KIT CLEAR COAT CAR LIGHTS - Protector

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

107-98-2 1-methoxypropan-2-ol

WEL Short-term value: 560 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Sk

141-78-6 Ethyl acetate

WEL Short-term value: 1468 mg/m³, 400 ppm
Long-term value: 734 mg/m³, 200 ppm

110-19-0 isobutyl acetate

WEL Short-term value: 903 mg/m³, 187 ppm
Long-term value: 724 mg/m³, 150 ppm

Regulatory information WEL: EH40/2020

DNELs

107-98-2 1-methoxypropan-2-ol

Dermal	Long term systemic effect	50.6 mg/kg/day (Worker)
Inhalative	Long term systemic effect	369 mg/m ³ (Worker)
	Acute systemic effect	553.5 mg/m ³ (Worker)

141-78-6 Ethyl acetate

Dermal	Long term systemic effect	63 mg/kg bw/day (Worker)
Inhalative	Long term systemic effect	734 mg/m ³ (Worker)
	Acute local effect	1,468 mg/m ³ (Worker)
	Long term local effect	734 mg/m ³ (Worker)
	Acute systemic effect	1,468 mg/m ³ (Worker)

110-19-0 isobutyl acetate

Dermal	Long term systemic effect	4.95 mg/kg (Worker)
Inhalative	Long term systemic effect	243 mg/m ³ (Worker)

PNECs

107-98-2 1-methoxypropan-2-ol

PNEC 10 mg/l (Aqua (freshwater))
1 mg/ml (Aqua (marine water))
41.6 mg/kg (Freshwater sediment)
41.7 mg/kg (Marine water sediment)
100 mg/l (Sewage treatment plant)
2.47 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)

110-19-0 isobutyl acetate

PNEC 0.17 mg/l (Aqua (freshwater))
0.877 mg/l (Freshwater sediment)
0.017 mg/l (Marine water sediment)
200 mg/l (Sewage treatment plant)

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.
Avoid contact with the eyes and skin.

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Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter A (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


Tightly sealed 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:

Colourless

Odour:

Fruit-like

Odour threshold:

Not determined.

Melting point/freezing point:

-96 °C

Boiling point or initial boiling point and boiling range

77 °C

Flammability

Highly flammable.

Lower and upper explosion limit
Lower:

1.7 Vol % (1-methoxypropan-2-ol)

Upper:

11.5 Vol % (1-methoxypropan-2-ol)

Flash point:

23 °C (ASTM D93 2a (closed cup))

Decomposition temperature:

Not determined.

pH at 20 °C

7

Viscosity:
Kinematic viscosity

<20.5 mm²/s

dynamic:

Not determined.

Solubility
Water:

Not miscible / difficult to mix

Partition coefficient n-octanol/water (log value) at 20 °C

0.37 log POW

Vapour pressure at 25 °C:

1.45 kgPa

Density and/or relative density
Density

Not determined

Relative density at 20 °C

880

Vapour density

Not determined.

9.2 Other information
Appearance:
Form:

Fluid

(Contd. on page 6)

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Trade name: 3K KIT CLEAR COAT CAR LIGHTS - Protector

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- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** 286 °C
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Solvent content:**
- **Organic solvents:** VOC(RFU)580
- **Change in condition**
- **Evaporation rate at 20 °C** 2.9 (Ethyl acetate)

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Highly 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
- **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** Forms explosive gas mixture with air
- **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:**
Carbon monoxide
Carbon dioxide

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:

107-98-2 1-methoxypropan-2-ol		
Oral	LD50	5,000 mg/kg (Rat)
Dermal	LD50	13,500 mg/kg (Rabbit)
141-78-6 Ethyl acetate		
Oral	LD50	4,935 mg/kg (rbt)
110-19-0 isobutyl acetate		
Oral	LD50	4,763 mg/kg (rbt)

- **Serious eye damage/irritation** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.

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Safety data sheet

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Printing date 23.01.2023

Version number 8 (replaces version 7)

Revision: 18.01.2023

Trade name: 3K KIT CLEAR COAT CAR LIGHTS - Protector

(Contd. of page 6)

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

107-98-2 1-methoxypropan-2-ol

EC50 (48 hr)	>1,000 mg/l (<i>Selenastrum capricornutum</i>)
	23,300 mg/l (<i>Daphnia magna</i>)
LC50 (96 hr)	6,812 mg/l (<i>Leuciscus Idus</i>)
	>1,000 mg/l (<i>Pimephales promelas</i>)

141-78-6 Ethyl acetate

EC50 (48 hr)	165 mg/l (<i>Daphnia magna</i>)
EC50 (72 hr)	>900 mg/l (Algae)
LC50 (96 hr)	230 mg/l (<i>Pimephales promelas</i>)

110-19-0 isobutyl acetate

EC50 (48 hr)	25 mg/l (Crustacea)
EC50 (72 hr)	370 mg/l (<i>Pseudokirchneriella subcapitata</i>)
LC50 (96 hr)	17 mg/l (Fish)
NOEC	23 mg/l (<i>Daphnia magna</i>) (OECD 211)

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 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.

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

UN1263

14.2 UN proper shipping name

ADR

1263 PAINT RELATED MATERIAL, special provision 640D

IMDG, IATA

PAINT RELATED MATERIAL

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Safety data sheet

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Printing date 23.01.2023

Version number 8 (replaces version 7)

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Trade name: 3K KIT CLEAR COAT CAR LIGHTS - Protector

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14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.
 · Label 3

· IMDG, IATA



· Class 3 Flammable liquids.
 · Label 3

14.4 Packing group

· ADR, IMDG, IATA II

14.5 Environmental hazards:

· Marine pollutant: No

14.6 Special precautions for user

· Warning: Flammable liquids.
 · Kemler Number: 33
 · EMS Number: F-E, S-E
 · Stowage Category: B

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

· IMDG

· 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 1263 PAINT RELATED MATERIAL, SPECIAL PROVISION 640D, 3, II

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

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- **National regulations**

- **Technical instructions (air):**

Class	Share in %
NK	100.0

- **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.

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.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H360D May damage the unborn child.

EUH066 Repeated exposure may cause skin dryness or cracking.

- **Department issuing data specification sheet:** Environment protection department

- **Abbreviations and acronyms:**

RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

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

Repr. 1B: Reproductive toxicity – Category 1B

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

- **Data compared to the previous version altered. ***